

<110> Rosen et al.

<120> 90 Human Secreted Proteins

<130> PZ013P1

<140> Unassigned

<141> 1999-02-04

<150> PCT/US98/16235

<151> 1998-08-04

<150> 60/055,386

<151> 1997-08-05

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<151> 1997-08-18

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<170> PatentIn Ver. 2.0

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| tctcccgac tcctgaggc acatgcgtgg tggtgacgt aagccacgaa gaccctgagg | 240 |
| tcaagttcaa ctggtaacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg | 300 |
| aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact | 360 |
| ggctgaatgg caaggagtag aagtgcagg tctccaaacaa agccctccca acccccatcg | 420 |
| agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acagggtgtac accctgcccc | 480 |
| catcccgaaa tgagctgacc aagaaccagg tcagcgtac ctgcctggc aaaggcttct | 540 |
| atccaagcga catcgccgtg gagtgggaga gcaatggca gccggagaaac aactacaaga | 600 |
| ccacgcctcc cgtgctggac tccgacggct ccttccttctt ctacagcaag ctcaccgtgg | 660 |
| acaagagcag gtggcagcag gggAACgtct tctcatgctc cgtgatgcat gaggctctgc | 720 |
| acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc | 733 |
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<210> 2
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<220>
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 <222> (3)
 <223> Xaa equals any of the twenty naturally occurring L-amino acids

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 Trp Ser Xaa Trp Ser
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 <211> 86
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 86

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 gccccctaactt ccgcggcaggattt ccgcggcattt tccgcggccat ggctgactaa ttttttttat
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 ttttggaggc cttaggctttt gcaaaaagct t 180
 240
 271

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 <213> Homo sapiens

<400> 6
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<210> 7
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 <213> Homo sapiens

<400> 7
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| <211> 12 | | |
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| <213> Homo sapiens | | |
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| <400> 8 | | |
| ggggactttc cc | | 12 |
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| <210> 9 | | |
| <211> 73 | | |
| <212> DNA | | |
| <213> Homo sapiens | | |
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| <400> 9 | | |
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| ccatctcaat tag | 73 | |
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| <213> Homo sapiens | | |
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| <400> 10 | | |
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| caatttagtca gcaaccatag tcccgcctt aactccgccc atcccgcccc taactccgccc | 120 | |
| cagttccgccc catttccgc cccatggctg actaattttt ttttattatg cagaggccgaa | 180 | |
| ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggctttttg gaggcctagg | 240 | |
| cttttgcaaa aagctt | 256 | |
| | | |
| <210> 11 | | |
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| <213> Homo sapiens | | |
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| <220> | | |
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| <222> (970) | | |
| <223> n equals a,t,g, or c | | |
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| <220> | | |
| <221> SITE | | |
| <222> (973) | | |
| <223> n equals a,t,g, or c | | |
| | | |
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| tggactgcca gctggataca aggtatgctca ccaagcacca agttctcaca agttatttta | 120 | |
| tgtactttg caggaactga ggcatttatat ctgaggacac cagggaaaa gtgtggcatc | 180 | |
| tcaggaaat acagccctgg gctgtgtcta cacacaccat gagagtgtg atgggggcgc | 240 | |
| aatagtcttgg aaaatgtata aagtgtcag gaatggaaatgt gtcctttgat tcattattat | 300 | |
| tttcttcctt catattcccc tcccagatgc tcctatctag gacatcagca ttctcacaca | 360 | |
| agcctaattgg cttatctgag taagcaggc tttagaaatttgc actttcttga tactcagtct | 420 | |
| tgccttctaa acactccttg atcttgccctt cctctccctt ttccacatg tcttttcctg | 480 | |

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| taggaacact | ttctccattt | atccctgcct | atccaattct | tccctatatt | tcctggacca | 540 |
| gctaaagtcc | agtgtttcca | gagacttttg | aaagtcaact | tacactttt | ccttcttcat | 600 |
| tcacaaaagct | cttcttccct | ggccctgggt | atgtatgcct | ttctctccta | ctgtctataa | 660 |
| gcacacctgta | aattgtcaat | gaactttct | aagggttatt | cttgaattcc | caactagatt | 720 |
| gtgagctct | ggaagacaag | gctatgtctt | tgattgtgt | ctcccctacc | acagcccagt | 780 |
| acttttagtta | cagaaaataa | taaatatttta | ctgattgatt | gactttctc | ttgtccacta | 840 |
| gcttttaggt | ttgggggcca | aattyaccc | tggattttk | aaaaattcaa | actgtgaaca | 900 |
| ccacaatgtt | atagagcata | ttaggtagta | gccagcatga | agggatgtt | tcttcctgag | 960 |
| aaacagtgtt | aangg | | | | | 975 |

<210> 12
<211> 2753
<212> DNA
<213> Homo sapiens

| | | | | | | |
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| ctccctccct | gccctcagt | gcagacctgt | gccaggacgg | gcatgggtggc | tgcagtgagc | 120 |
| acgccaactg | tagccaggt | ggaacaatgg | tcacttgtac | ctgcctgccc | gactacgagg | 180 |
| gtgatggctg | gagctgcccgg | gcccccaacc | cctgcacaga | tggccacccgc | gggggctgca | 240 |
| gcgagcacgc | caactgcttg | agcaccggcc | tgaacacacag | gcgctgtgag | tgccacgcag | 300 |
| gctacgtagg | cgtggactg | cagtgtctgg | aggagtctgga | accacctgtg | gaccgctgt | 360 |
| tgggccagcc | accgcctgc | cactcagatg | ccatgtgmac | tgacctgcac | ttccaggaga | 420 |
| aacgggctgg | cgttttccac | ctccaggcca | ccagcggccc | ttatggtctg | aacttttcgg | 480 |
| aggctgagggc | ggcatgcgaa | gcacaggagg | ccgtccttgc | ttcattccct | cagctctctg | 540 |
| ctgcccagca | gctgggcttc | cacctgtgcc | tcatggctg | gctggcaat | ggctccactg | 600 |
| cccacccctgt | ggttttccct | gtggcggact | gtggcaatgg | tcgggtgggc | rtagtcagcc | 660 |
| tgggtgcccc | caagaacctc | tcagaacgct | ggatgccta | ctgcttcgt | gtgcaagatg | 720 |
| tggcctgccc | atgccaat | ggcttcgtgg | gtgacggat | cagcacgtgc | aatgggaagc | 780 |
| tgctggatgt | gctggctgcc | actgccaact | tctccacctt | ctatggatg | ctattggct | 840 |
| atgccaatgc | caccacggg | ggtctcgact | tcctggactt | cctggatgat | gagtcacgt | 900 |
| ataagacact | tttcgtccct | gtcaatgaag | gctttgtgga | caacatgacg | ctgagtggcc | 960 |
| caagacttgg | gctgcattgc | tccaaacgca | ccctcctaag | tgccaacgcc | agccagggga | 1020 |
| agttgctcc | ggcccacta | ggcctcagcc | tcatcatcag | tgacgcaggg | cctgacaaca | 1080 |
| gttcctggcc | ccctgtggcc | ccagggacag | ttgtggttag | ccgtatcatt | gtgtggaca | 1140 |
| tcatggcctt | caatggcattc | atccatgctc | tggccagccc | cctcctggca | ccccccacagc | 1200 |
| cccaggcagt | gctggcgcct | gaagccccac | ctgtggcgcc | aggcgtgggg | gctgtgttg | 1260 |
| ccgctggagc | actgcttggc | ttggtggccg | gagctctcta | cctccgtgcc | cgaggcaagc | 1320 |
| ccatgggctt | tggcttcct | gccttccagg | cggaaatgta | tgctgatgac | gacttctcac | 1380 |
| cgtggcaaga | agggaccaac | cccaccctgg | tctctgtccc | caaccctgtc | tttggcagcg | 1440 |
| acaccccttg | tgaacccttc | gatgactcac | tgctggagga | ggacttcct | gacacccaga | 1500 |
| ggatccctac | agtcaagtga | cgaggctggg | gctgaaagca | gaagcatgca | cagggaggag | 1560 |
| accacttta | ttgtttgtct | gggtggatgg | ggcaggaggg | gctgaggggcc | tgtcccagac | 1620 |
| aataaagtgt | ccctcagccg | atgtgggca | tgtcaccaag | gaagggggtc | ttcatgcagc | 1680 |
| cggtgtcagag | ctggtccatc | cagaggggtg | cctcgtgtc | cagcggcgta | cggcgtgggt | 1740 |
| agaaggtgaa | gtccacgcgg | tagttgagca | ggcagctgag | ggaggccatg | tagaggtcag | 1800 |
| agaagcgcac | gaggcgcctt | gagaagttag | tgggttgcgt | gaaggtgcgg | aagatgctgc | 1860 |
| cgaactgcgc | attgaacagg | gccttggta | tgcacccctc | ctccctgcgc | tctttcatcc | 1920 |
| aggcagccag | cacccgcctc | gactcccggt | cctgtataggt | ctgcacgcgc | tccacgcggc | 1980 |
| ccgtgagcgc | ctgtgtccac | gtcagcgagt | gcatgtactg | ctccgtgttgc | atgatgcgg | 2040 |
| tctcacgcctc | cagctggggg | atgatggcgc | ctgtgcgcac | gccgtgcgc | agcatgagat | 2100 |
| ccgcccagatc | actatagagg | tggtcccga | agtagagcac | gcggggggca | ccgcattccg | 2160 |
| tcaagcgtaa | gaagtcaaac | aggtttccct | gccgatagat | cttgcctttt | tccaaacgcgg | 2220 |
| tgatccggtc | ccactgaagt | gagccctct | catcgagtt | tctgaaagct | tgccgggtc | 2280 |
| agtgaagaag | ctgggcttgt | ctgcctgac | aatgaccaca | tcgaagagct | ggcgcacatc | 2340 |
| gggacccacc | atgtccgc | tcccttgc | tacgaagctg | aaaggactgt | tggatgag | 2400 |
| gaacagctgt | ttcccatggg | ccaccaggcg | gctcaggaca | gcaaacgtct | catccctct | 2460 |

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| caggatgtac ttctccatgt cctgctcgat ccactggtagc atgaggccct tcacatgcac | 2520 |
| gtctcgatg gcgtccgtca cgtccttgcg gagatgtgc tggtaaaact ccaggctgtg | 2580 |
| gcccagaaag tagtccacca cacaggacag cagagccatc tccggtagcg agaagatgtc | 2640 |
| catgaactgc ttaatggagg gacccttgcc atagaagcca ctcatctggat atagtggat | 2700 |
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| aagctccagc ggcttaacc cttaacttg gggctttag acagcagggg acagaaaagg | 180 |
| aggatccaaac gttacaggaa aggcacgaag cggcttaaa agtcaactggat ggtggagatg | 240 |
| ggagcatcca aagtcccagg gtgggggtgc gtggatgcac caccagatca gcttgggggc | 300 |
| ctctgtccctc cttagctttt aagttcttc tcagggcttc taggcaccag atctagcata | 360 |
| gtgccttgca cagagtaggc actcaataca tacttgatt atttgaatct gatccttagag | 420 |
| aaaggcttcc ccacccattc ttcaaggaggt gcaccccaa accaatgtcc tcctgttaga | 480 |
| tgggcttccc caaagagcac atctaagatg gcagctgcaa gctctccata accatggcaa | 540 |
| caggggattt acctgtatggg gtcatgggt ctaaggggtg gggcagtgga ggaacctgct | 600 |
| ctgcagtccaa gggagatggg gtacattcca gtccttctcc cctccatagg acttgagggtt | 660 |
| tcacagcttc tggctggggc tggggatatt agggatcccc ctaatcaaga gataccccat | 720 |
| caactgttta gcagagatgt agctaaccctt attttagatg acttcattac aagagaaacc | 780 |
| ctatcaactg agattctgtat gataagacatt ctattaacaa gatcttctcc actaacattt | 840 |
| tgtctataaca gagatgcatt tgactagaat ttcccttagca gaaatggatc cacttccctc | 900 |
| cccagctcac tctacctgac ccgtcatcat aacttacata aatagaatata ttactattca | 960 |
| ttacttctgg tacatagggg ttaaatatac aggctgggg gcagccttccc tgaccctctc | 1020 |
| gtgcc | 1025 |

<210> 14
<211> 781
<212> DNA
<213> Homo sapiens

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| aataaaatctg gaagtgtctg agagtcaaaa atgtggtgca tgcaatataat gatgtaaaac | 120 |
| aaaggcgggt ggttacgta gtcagcaga caagacgcca gatggtatgt atgcttgatt | 180 |
| gaaagtaccc acctgttatt ctgcgaacac aatgggagga acagaatctt acatttccctc | 240 |
| atccccctta ctgaggactc tccttcttc atacttagta tttttatatt acctgtatct | 300 |
| attattctac gtggcaagaa gtcctttgg gaaggcagag tataaataat gtatgtttat | 360 |
| taatagataa gtatttagta aactttgcat tagaagatgt atgactgacg ttgcataagag | 420 |
| tttgtgtatg tagagtaata ttccatgtt tacacatcca taattatgtt tgccgaaaca | 480 |
| tgaataccct actacaggc acatcagggt ggggatgcat agggacaaa | 540 |
| aatgtacaca atttggatc tgctctcaga gagattacat agtagggagag gaagacccag | 600 |
| tataaaaaaaaa tagaataaaag gcaagtggcc caaatcttg tcattaattractggaa | 660 |
| agaggcttag gaaagatgtag acatttaagc attgcattggaa ggaaaaaaa agtagatctc | 720 |
| cttggcaggt ggataggcta ggacattcca aactgagaaa aaaaaaaaaaa aaacgscacg | 780 |
| a | 781 |

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<211> 1040
<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<400> 15

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| agcggacgct gttaggggtg gcgggggtt ggccgggtt cgagaggctc tggccggca | 120 |
| gtctaaagctc tcgcagcctg gctcttgtag cgcacccctc aagcaacgga tccccatggc | 180 |
| gcttggggc cgcgttgc ctgcagcgc cacctgttagt ctccaaagccg ttgacccat | 240 |
| tgcaggaaga gatggcgtct ctactgcgcg agattgagat agagagaagc ctgtattcag | 300 |
| accacgagct tcgtgctctg gatgaaaacc agcgactggc aaagaagaaa gctgacccctc | 360 |
| atgatgaaga agatgaacag gatattatgc tggcgcaaga tttggaaagat atgtgggagc | 420 |
| agaaatttct acagttcaa cttggagctc gcataacaga agctgatgaa aagaatgacc | 480 |
| gaacatccct gaacaggaag ctagacagga accttgcct gttagtcaga gagaagtttgc | 540 |
| gagaccagga tgtttgata ctgcccagg cagagtggca gcctggggag acccttcgag | 600 |
| gaacagctga acgaaccctg gccacactct cagaaaacaa catggaaagcc aagttccctag | 660 |
| gaaatgcacc ctgtgggac tacacattca agtccccca ggcaatgcgg acagagagta | 720 |
| acctcgaggc caaggtgttc ttcttcaaag cactgctatt aactggagac ttttccagg | 780 |
| ctggaaataa gggccatcat gtgtgggtca ctaaggatga gctgggtgac tatttgaac | 840 |
| caaaataacct ggcccaagtt aggaggtttgc ttccagacct ctgatggcc gagctgcctg | 900 |
| tggacgggtgc tcagacaaatgtt ctgggatttag agcctcaagg acattgtgttgc attgcctcac | 960 |
| atttgcaggt aatatcaagc agcaaactaa attctgagaa ataaacgagt ctattacwaa | 1020 |
| aaaaaaaaaaaaaaa aaaaatcgca | 1040 |

<210> 16

<211> 712
<212> DNA
<213> Homo sapiens

<400> 16

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| ccagcaagaa ggctctctct caccagatgt gccccccgccc aaccttggat gtctcagtct | 120 |
| ccagaactca gatgagccag ctcccttgc aagctgttaag aacatggtac ttacaggagt | 180 |
| aaggctcatg aagtggagag atgagaagac ttccggaca gattgtgtgg aggctgtcat | 240 |
| tctcctcgtg acattgtgtt gggagaagaa ggaggcattc catgttggct tcagtgaaga | 300 |
| acttcagttat ttccagaga gaagtactga gaagcttaaa gtatttgaat gggaggagga | 360 |
| gaagcaaact acagctactt cagaggataa cactaaacac ctatccact ctgtatacac | 420 |
| tagaggtgtt gttaattttc ttgtggagaa ggaactgtct ttagaaaaat atctcaaaaaa | 480 |
| gccactgaag tagaaagttt cagcatgtg aagatggac ttgagaagat agaaagtttct | 540 |
| gggtccttag tggcatgact gagtcgttgg accactgttgc gaaccacccct atgtcttagt | 600 |
| ttttaaatct cttaactgttca agacattt tttagtggaaat tatttatctc tggcatccaa | 660 |
| taagaccttt aaggatttgc agttttaaaaaaa aaaaaaactc ga | 712 |

<210> 17

<211> 1323
<212> DNA
<213> Homo sapiens

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<221> SITE
<222> (1086)
<223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1087)
 <223> n equals a,t,g, or c

<400> 17

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| cctcgccgga | ggtcagcgtt | gctgtgttc | ctaagttaa | tgccctgaat | ctgcctggcc | 120 |
| aaactcccag | ctcatcatcc | attccctcct | taccagcctt | gtcggaatca | ccaaatggga | 180 |
| aaggcagcct | acctgtcaact | tcagcactgc | ctgcactttt | ggaaaatggg | aagacaaatg | 240 |
| gggaccaga | ttgtgaagcc | tctgctctg | cgctgaccct | gagctgcctg | ggaggagctt | 300 |
| agtcaggaga | ccaaggccag | gatggaggaa | gaagcctaca | gcaaggatt | ccaaagaaggt | 360 |
| ytaaaagaaga | ccaaagaact | tcaagacctg | aaggaggagg | aggaagaaca | gaagagttag | 420 |
| agtcctgagg | aacctaaga | ggtagaagaa | actgaggaag | aggaaaaggg | ccaaagaagc | 480 |
| agcaaaactt | gagaattgg | ccatccctta | caagtcatgt | atcccaaact | gtgtcagcac | 540 |
| tggcaagtga | tctggatgtat | ggctgcagtg | atgctggct | tgactttgt | gctggggctc | 600 |
| tacaattcct | ataactctt | tgcagagcag | gctgatgggc | cccttggaaag | atccacttgc | 660 |
| tcggcagccc | cagggactcc | tggtggagct | caggactcca | gcatgagcag | cctacagagc | 720 |
| agtaggaaac | ctcacaccta | gccagtgccc | tgcctctgaga | cactcagact | accacccttt | 780 |
| ccccaaagtat | aacgtcaggc | ccaagtgtgg | acacactgccc | gcccatccca | ttaggtcatg | 840 |
| aggaagggtt | cttttaacac | tcggcacttc | tgtggagct | attcatcac | agtgacttga | 900 |
| tgttcttgg | ggatcaacaa | aactgcctg | ggaaagcatc | cagtggatga | agaagtccacc | 960 |
| tccaccaagg | aactctattt | gaagggaaagg | tctcctgccc | ctagctcagg | tggctgggga | 1020 |
| gaactaaaac | accttcactg | gtgggtgggg | gtaaggagcg | gggcacgggg | gaggaggagg | 1080 |
| tagggncag | taaaaaactt | actctctttt | ttcctctctg | taattgtta | ttaggaagaa | 1140 |
| tttgcttaat | gactaacacc | ctaagcatca | gacctggaat | ttggagggtgc | aaagtgacta | 1200 |
| tcttccatt | tcccatctca | ttttcaataa | cttcagcctc | ccattcttc | ctttggaaatg | 1260 |
| agagtttctt | tttacagaag | taggaaggc | ttctcagaaa | aaaaaaaaaa | aaaaaaaaact | 1320 |
| cga | | | | | | 1323 |

<210> 18
 <211> 786
 <212> DNA
 <213> Homo sapiens

<400> 18

| | | | | | | |
|-------------|-------------|------------|-------------|--------------|-------------|-----|
| cccacccggg | gagggtcggt | gtgcgcctgc | ccaggggtggg | ggttgcgcgtc | gcccctaggc | 60 |
| ctttccctca | ggttttcctc | ttccccactg | cggtccccca | gtcgccgcctt | gccccggaaac | 120 |
| tcagcgctga | gattgtctaa | agccccagga | aaaatgggg | aaaatttacc | gtcgccattg | 180 |
| ccagaaaagag | cgattttatgg | cttgttctt | ttcttaagct | cccaatttgg | cttcataactt | 240 |
| tacctcggt | gggcctttat | tcctgaatct | tggctaaact | ctttaggttt | aacctattgg | 300 |
| cctcaaaaat | attgggcagt | tgcattacct | gtctacctcc | ttattgttat | agtaattggc | 360 |
| tacggtct | tgttgggat | taacatgatg | agtacctctc | cactcgactc | catccatata | 420 |
| atcacagata | actatgcaaa | aaatcaacag | cagaagaaat | accaagagga | ggccattcca | 480 |
| gccttaagag | atatttctat | tagtgaagta | aaccaaatgt | tcttccttgc | agccaaagaa | 540 |
| ctttcacacca | aaaactgaac | tgtgtgtaac | catagtaaca | ccaaagcacgt | atttatttat | 600 |
| aagttttgc | cattataatt | ttgaccataa | attaaattga | ccatctctct | tattaataga | 660 |
| gaagtaaaaa | atgtaaatgg | accttctctt | agattatgtt | caatgaatat | tgtaaatgtt | 720 |
| caagtattgt | taatgaatag | aataaataca | atattgcatt | cccaaaaaaaaa | aaaaaaaaaa | 780 |
| actcga | | | | | | 786 |

<210> 19
 <211> 510
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> n equals a,t,g, or c

<400> 19

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| gnaccccccgg | gctgcaggaa | ttcggcmcga | gaaatgagggc | ttcagcctga | catctgtAAC | 60 |
| ctccccacca | accctctgag | tctgaagttg | ggcttgatgc | tgttattcact | gaccctttgt | 120 |
| ttggagaaaa | cagtccagg | tttgaatttgc | ggcttatgtt | tattcaaact | aagcttctct | 180 |
| gagcacatgg | tctgtcccac | tcatcctcag | agtatccgtt | ggttttactt | catgttcaga | 240 |
| ctgcagtgtt | gttaaagaaa | taaagctaca | gtgttttcag | aaggatttgt | tatattatac | 300 |
| ttcatgttcc | cactgctcca | ggctaagcgt | ctccctctggg | ctccattgtt | taatgcagga | 360 |
| caaagccagg | tttctggca | gcttcctttt | catagcaatt | ctcagtagag | gtatagaatg | 420 |
| agacctgcct | accttcttgg | gtgtttatta | ccccattttgt | ggattttact | ttaacttctg | 480 |
| ttaccttaaa | aaaaaaaaaa | aaaaactcga | | | | 510 |

<210> 20

<211> 750

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (749)

<223> n equals a,t,g, or c

<400> 20

| | | | | | | |
|--------------|--------------|-------------|-------------|------------|-------------|-----|
| gagctgcctg | atggaaagaa | gagaagaaag | gtccctggcgc | tcccctcaca | ccgaggcccc | 60 |
| aaaatcaggt | tgcgggacaa | aggcaaagtgc | aagcccggtcc | atcccaaaaa | gccaaagccaa | 120 |
| cagataaaacc | agtggaaagca | ggagaagcag | caattatcgt | ccgagcaggt | atctaggaaa | 180 |
| aaagcttaagg | gaaataagac | ggaaaccgc | ttaaaccaggc | tggtcgaaca | atataagcag | 240 |
| aaattattgg | gaccttctaa | aggagcacct | cttgcaaaaga | ggagcaatg | gtttgatagt | 300 |
| tgatgatggc | agcaggctgg | gttggaaagct | gggttggta | cttctggta | acactcctgg | 360 |
| gctcctcccc | atccccccgt | tctctcactg | aggggaaagaa | aatccccaa | ggcactgcca | 420 |
| ctgtgcctgg | agggtccctg | gactgtgtac | atctgaactt | tggccatcc | tttgatgtgt | 480 |
| ggttcgttag | ccacaaaagag | aaatatctga | aagtcaacat | gatgctctt | gcataattatc | 540 |
| cagattatttgc | tatgaagtttgc | tgtctataat | tattaccaat | ttttatcttt | tatctcaaa | 600 |
| atggaaacac | ctgaaaaagc | attctggagt | gctgaattttt | taagatgtat | atttgttaaa | 660 |
| gcataattctc | taaatgagat | attgtgtggc | tttttagtaa | caacgtcatt | tctaataaaaa | 720 |
| aaaaaaaaaa | aaaaagaaaa | aaaaaaaana | | | | 750 |

<210> 21

<211> 838

<212> DNA

<213> Homo sapiens

<400> 21

| | | | | | | |
|--------------|--------------|-------------|-------------|------------|-------------|-----|
| gaattcgcca | cgaggagcca | ctgcggctgg | ccaagatgct | ttatattctt | ttaaaaccat | 60 |
| tgttgttct | atctgttaac | tgcacaaaata | tttaccaaata | gcttaccaag | agccaaggac | 120 |
| tagactggc | actgggtaga | aacttagtaag | gcatggtcct | tcttctacat | agaatcttag | 180 |
| catttttagag | atgagttccc | agacatggtc | cagaaggtca | cagttcacac | cattaggcaa | 240 |
| ggcagtattt | gaaataaaaag | tcatgtctaa | tactaaatcc | agtatgttct | ctcccttcagg | 300 |
| attttactct | catgtctggc | ccttggtttg | ctatgctctt | ccccagacag | ctgcacagct | 360 |
| catttaattt | agatctcatt | taatttagat | ctctcaatta | atttagatct | ctgttaaaaa | 420 |
| aaaaaaaaaaag | cccttagggcag | caaggtctaa | catatcatcc | tcaaataaaa | gagaaagccc | 480 |
| tttggtgtta | tttttcttta | tagcacttac | caactcccag | tagaatgtaa | actccagtag | 540 |

| | |
|--|-----|
| ggcacatatac tttgcctctt ttatTTactg ctctattccc agcaccagaa cagtccttgc | 600 |
| cacaaagtag gtgctcaata aacatTTgtt gaatgaatta accttagtgtt ctttttacct | 660 |
| acacatgcac acacagagcc atgacactcc tgccgaggaa gctcgccgct ctaagagggaa | 720 |
| cattaaagaa aagccaattc agtgcctgcc aaagagtaga acatgtttg acagcaggat | 780 |
| cagcttgggt ggtggaccaa caatgggtt cagaccaaga aaaaaaaaaa aaactcga | 838 |

<210> 22
 <211> 1061
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (138)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (460)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (473)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1048)
 <223> n equals a,t,g, or c

| | |
|--|------|
| <400> 22 | |
| acaccaatgg agacataatt gtgggcagac tatgacaacc gttgggtcag catcttctcc | 60 |
| cctgaggggc aagttcaaga ccaagattgg agctggccg cctcatggc cccaaggagg | 120 |
| tggccgtaga ccggaatnga catatcattt tggcgtacaa caagtcttgc tgcgttta | 180 |
| ccttccagcc caatggcaaa ctggttggcc gtttggggg ccgtggggcc actgaccgccc | 240 |
| actttgcagg gcccatttt gtggctgtga acaacaagaa taaaattgtt gtaacggact | 300 |
| tccataacca ttcaagtgaag gtgtacagtgc cgatggaga gttccttcc aagtttggct | 360 |
| cccatggcga gggcaatggg cagttcaatg ccccccacagg agtagctgtg gactccaatg | 420 |
| gaaacatcat tggcgtac tggggcaaca gccgcattt agttattcga canctctggc | 480 |
| tccttcctgt cctatatcaa cacatctgca gaaccactgt atggccaca gggcctggca | 540 |
| ctgacctcgg atggccatgt ggtggggct gatgtctggca accactgtt taaagcctat | 600 |
| cgctaccc agtagctgtt cagaggccct gcctggctt tggagggaca gacattgggg | 660 |
| tgattggaca agagggtctg gctggggaggt gggccagacc tggcagcact gaatgtgggc | 720 |
| tgtggcattt ggtgcacccg gtgccttcc tctccttacc ccaccccccac ggttgcactt | 780 |
| tatTTatTCG gttcttgcTT tggtaactgg gtgagcctgg actgtgttcc caaggatgtt | 840 |
| tgcagagctt cacccttaccc ttcttacaca cctccccacc cctgtcagtc tgctccccat | 900 |
| cccccagct gggccagaa cagccttaccc caggacagga gtccctctt tagtctccct | 960 |
| accaccctt acacactgac agagacagca ataccccacc ccccatatta aataaaatgtc | 1020 |
| ttcaccaaga aaaaaaaaaa aaaaaaaanac tcgccccacg a | 1061 |

<210> 23
 <211> 884
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (307)
 <223> n equals a,t,g, or c.

<220>
 <221> SITE
 <222> (356)
 <223> n equals a,t,g, or c

<400> 23

| | | | | | | |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| tcgaccacg | cgccggccgg | atgggtgcca | ccctcctgc | tgtaggatgg | aagcagccat | 60 |
| ggagtggag | ggaggcgcaa | taagacaccc | ctccacagag | cttggcatca | tggaaagctg | 120 |
| gttctaccc | ttccctggctc | ctttgtttaa | aggcctggct | gggagccttc | cttttgggtg | 180 |
| tctttcttt | ctccaaccaa | cagaaaagac | tgctcttcaa | agtggagggt | cttcatgaaa | 240 |
| cacagctgcc | aggagcccag | gcacaggctg | ggggcctgga | aaaaggaggg | cacacaggag | 300 |
| gagggangga | gctggtaggg | gagatgtgg | gctttaccta | agtctcgaaa | caaggnggca | 360 |
| gaataggcag | aggcctctcc | gttccaggcc | catttttgcac | aratggcggg | acggaaatgc | 420 |
| aatagaccag | cctgcaaraa | aracatgtgt | tttgcatac | ggcagtgtgg | ccgggtggaa | 480 |
| caagcacagg | ccttggaaatc | ccaatggact | gaatcagaac | cctaggcctg | ccatctgtca | 540 |
| gccgggtgac | ctgggtcaat | tttagcctct | aaaagcctca | gtctccttat | ctgcaaaatg | 600 |
| aggcttgcgt | tacccgtttt | gaagggttgc | tgagaaaatt | aaagataagg | gtatccaaa | 660 |
| tagtctacgg | ccataccacc | ctgaacgtgc | ctaattctcg | aagctaagca | gggtcaggcc | 720 |
| tggtttagtac | ctggatgggg | agagtatgga | aaacatacct | gcccgcagtt | ggagttggac | 780 |
| tctgtcttaa | cagtagcgtg | gcacacagaa | ggcactcagt | aaatacttgt | tgaataaaatg | 840 |
| aagtagcgat | ttgggtgtgaa | aaaaaaaaaa | aaaaaaaaaa | aaac | | 884 |

<210> 24

| | | |
|-----------|-----------|--------------------|
| <211> 711 | <212> DNA | <213> Homo sapiens |
|-----------|-----------|--------------------|

<400> 24

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|-----|
| atagggcgt | tgggtacggg | ccccccctcg | agtttttttt | tttttttttt | tttagagaca | 60 |
| gagtcttgct | ctgtcaccta | ggctggagta | cagtggcgtg | atcatagctc | actgttaacct | 120 |
| tgaactctg | ggcttgagca | accctcctgg | cacaatctcc | ttgaatgtat | ggccccaaaga | 180 |
| gccagacaga | acggacttcc | tcccttatgc | ctcatcaagt | tagagagaga | agagctcaca | 240 |
| tcccccaat | gcctatgaac | acataactct | actgattcct | gacctgacct | gccttggcct | 300 |
| caagagggcc | aatgtctcaa | ttccttgagt | tcaaatcttt | ttccctgtat | tttctcacct | 360 |
| gtggggtcca | cctctgtccc | tctgactcac | agaatgtgac | tgccccccctc | cttcttatgaa | 420 |
| tagtccctca | gaggtctgaa | gacagaaaagc | atatcttcct | tgagtcttct | ctaagtgtgaa | 480 |
| tactcccaat | cacccaaac | agagtagtgc | agtgcaggaa | aagtatagtt | ttgtgatcag | 540 |
| atgtgttattc | aaaattccat | atcacaactt | actaactaca | tgacctagag | tatgttcttt | 600 |
| cacctcacag | aggcaggagc | attgtgagga | ttaaagcgtcc | tagccaggaa | tagccatag | 660 |
| tatgtgctca | ataaatgata | tttctcaaga | taacaatctc | gtgccgaatt | c | 711 |

<210> 25

| | | |
|-----------|-----------|--------------------|
| <211> 507 | <212> DNA | <213> Homo sapiens |
|-----------|-----------|--------------------|

<220>
 <221> SITE
 <222> (7)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (10)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (48)
 <223> n equals a,t,g, or c

<400> 25

| | | | | | | |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| ctcgaantant | ccccactaag | ggaacaaagc | tggagctcca | cgcggtnncg | gccgcttar | 60 |
| aactagtgg | tccccgggc | tgcaggaatt | cggcacgagc | ttttccaaaa | tggctgtact | 120 |
| aatttacatt | cccaccaaca | atgttcaagg | atttcataatt | cttgacattc | ttaccaaaaat | 180 |
| tgtcacagtt | tgtaaaaggt | agtctaataa | gtggcctaag | tgaatgtgac | aacacttcat | 240 |
| tgaaagcaat | cttaggtttt | tccaactata | gtcaataata | acttaattgt | acattctaaa | 300 |
| ataactcaaa | gagtgttaatt | ggattgcttg | taacttaaag | gataaatgct | tgaggggatg | 360 |
| gatgcctcat | tctccatgat | gtgcttattt | cacattgcat | gcctgtatca | aaacattaca | 420 |
| tttatccat | aatatacaca | cttactatgt | accccaaaa | aataaacatt | aaaattaagt | 480 |
| tttcaaaaaaa | aaaaaaaaaa | aactcga | | | | 507 |

<210> 26
 <211> 2232
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (715)
 <223> n equals a,t,g, or c

<400> 26

| | | | | | | |
|-------------|-------------|--------------|------------|-------------|-------------|------|
| ctcccaggcc | cgcgaacttg | gccattcagc | cggcgctgtc | cccgctgcgc | gccctcgccgc | 60 |
| ctctgcctga | raagccaggc | gctgttcccc | caccccagaa | gaggatggca | aaggtggcta | 120 |
| aggacctcaa | cccaggagtt | aaaaagatgt | ccctgggcca | gctgcagtca | gcaagaggtg | 180 |
| tggcatgttt | gggatgcaag | gggacgtgtt | cgggcttcga | gccacattca | tgagggaaaa | 240 |
| tatgcaagtc | ttgcaaatgc | agccaaaggagg | accactgcct | aacatctgac | ctagaagacg | 300 |
| atcgaaaaat | tggccgcttg | ctgatggact | ccaagtattc | caccctcaact | gctcgggtga | 360 |
| aaggcgggga | cggcattccgg | atttacaaga | ggaaccggat | gatcatgacc | aaccctattt | 420 |
| ctactggaa | agatcccact | tttgacacca | tcacctacga | gtgggcctccc | cctggagtc | 480 |
| cccagaaact | gggactgcag | tacatggagc | tcatcccaa | ggagaagcag | ccagtgcacag | 540 |
| gcacagaggg | tgcttttacc | gcccggccca | gctcatgcac | cagctcccc | tctatgacca | 600 |
| ggatccctcg | cgctgccgtg | gacttttgg | gaatgagttg | aaactgatgg | aagaatttgt | 660 |
| caagcaatat | aagagcgagg | ccctcggcgt | gggagaagtg | gccctcccg | ggcanggggtg | 720 |
| gcttgccaag | gaggagggga | agcagcagga | aaagccagag | ggggcagaga | ccaytgctgy | 780 |
| taccaccaac | ggcaktytca | gtgaccggc | caaagaagaa | gcgtgcttagc | cagtccact | 840 |
| cgtgtgataa | cccattaatc | tattaagcca | taagtggatt | aatccattcc | tgaggacctg | 900 |
| agccctcact | acccaatcat | ctcttaaagg | ccccacctct | caatactgcc | atgcagagga | 960 |
| ttatgtttca | acctgagtgt | ttggagggga | tgttcaaccc | ataggaagtg | gcagtgtgga | 1020 |
| agaagtgtg | ctgaggagtg | agtcaactgg | ggccattttg | agaaaacaga | aaggagaagc | 1080 |
| cagagttggg | gagatgaaag | cctcatggct | tggtttgtct | taaactgccc | cacagaaggc | 1140 |
| gaaaggaatg | cttgaggctg | gaccacgtgg | gtctagctg | tactgcgtt | ctggccccca | 1200 |
| gccccctgttt | taccttttgc | tcctcctgcc | ccatcaacca | agtgtttca | tttgcatttca | 1260 |
| tggcaattaa | cttttggaga | tagaagtccc | agcacacgag | atccccaaagc | acattatcta | 1320 |
| ccttgctgaa | caggctggca | gtcacacatg | agccaggcg | cccaggaaaa | tgccagcccc | 1380 |
| aacgaagctg | ctgccacatc | cagagagggc | cgactcttt | ctccctgt | gtcactcaag | 1440 |
| ctaattatcc | aaaacactgca | tcctccatct | ccaagcccc | tcttattagc | accatctggg | 1500 |

| | |
|---|------|
| attgccaacc aagaaaactgt tttatctgag aactctaaga ccaaagaaca agatttattt | 1560 |
| cctctactac agatttggca gtgacgcata aaaggccat ttctcaggaa gaatacatgt | 1620 |
| cctaaggatg taaaaaaaaaaa aaaaatatta gatctagttt ccatggkcta taaactggtc | 1680 |
| ttttcccgcc ccaccctgat cctggcttct gtccaccctc aaatagctgt ttgktcataa | 1740 |
| accctaaata ctagataatt ctaagttgga aggagacctc taagtcactg tagcatttcc | 1800 |
| aaatcgccat tcccaagaga catgtggatc tgacatcgtg tttatctt gactgagcct | 1860 |
| cgcayatttgc ttctgtgtgg aacaaaggca aaggcagccc aagaaccggc gtccctgcct | 1920 |
| acagtcagct ttaggaaatg attgtgaact tggaaagcat taaaatagca atactagaca | 1980 |
| gtaaatggaa aaggccaaag tcagaaaaata agtagggatt ccaaagaag ccttattgg | 2040 |
| ttgggctagg ctgggcttagc tggaaagat agacttctat gtccctgcct caaccacaat | 2100 |
| tttactttaa ttattatgtt attagtgaat cgatgtctgt caccgtctgt agatgctgag | 2160 |
| gtcttggca tctctttatt tgcatggata tacatagcca ttgctcaata aatatgtgac | 2220 |
| ccatgaaaaaa aa | 2232 |

<210> 27
 <211> 640
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (4)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (15)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (17)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (21)
 <223> n equals a,t,g, or c

<400> 27
 nggngtgacc tatanangta nccttcagta ccgtccggaa ttcccggtc gaccacgcg 60
 tccgaggaga tgcttcaaaa tgtcaattgc tttaaactta aattacctct caagagacca 120
 aggtacatcc acctcattgt gtatataatg ttatataatgt gtcagagcat tctccaggtt 180
 tgcagttta ttctataaaa gtatgggtat tatgttgctc agttactcaa atggtaactgt 240
 attgtttata ttgttacccc aaataacatc gtctgtactt tctgtttct gtattgtatt 300
 tgtgcaggat tctttaggtt ttatcagttt aatctctgcc tttaagata tgtacagaaaa 360
 atgtccatat aaatttccat tgaagtcgaa tgatactgag aagcctgtaa agaggagaaaa 420
 aaaacataag ctgtgtttcc ccataagtt tttaaattt tatattgtat ttgttagtaat 480
 attccaaaag aatgttaataa ggaaatagaa gagtgatgct tatgttaagt cctaacacta 540
 cagtagaaaga atgaaagcag tgcaaataaa ttacatcccc cccaaaaaaaaaaaaaaaaaa 600
 aaaaaaaaaaaaaaggc ggcgcctca gaggatccct cgagggggcccc 640

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<210> 28
<211> 413
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (407)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (409)
<223> n equals a,t,g, or c

<400> 28
gaattcgcca cgagtgcagc ttcattttgg gctgccttag ccatgaagct cctttgctg      60
actttgactg tgctgctgct cttatccag ctgactccag gtggcaccca aagatgctgg      120
aatctttatg gcaaattgccc ttacagatgc tccaaagaagg aaagagtcta tggtaactgc      180
ataaataataaaatgtgctg cgtgaagccc aagtaccagc caaaagaaaag gtgggtggcca      240
ttttaactgc tttgaaggctt gaagccatga aaatgcagat gaagctccc gtggattccc      300
acactccatc aataaacacc tctggctgaa aaaaaaaaaa aaaaaaaaaa araraaaaaaaaa      360
aaaaaaaaa actcaagggg gggcccggtt cccattcgcc ctatgtnnnt cgt      413

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<210> 29
<211> 1122
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (948)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1107)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1116)
<223> n equals a,t,g, or c

<220>
<221> SITE

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<222> (1121)

<223> n equals a,t,g, or c

<400> 29

| | | | | | |
|-----------------------|--------------|-------------|--------------|------------|------|
| ggcanagcta accgcagtct | ctactactc | ctttcgccc | ccacacctgt | ctacgagctc | 60 |
| aactttcccc | gctctccccg | catccggaaag | cgctttctgc | tgcgacggat | 120 |
| ctgttcttca | cccagctcca | ggtgggctg | atccagcagt | ggatggtccc | 180 |
| aactccatga | agcccttcaa | ggacatggac | tactcacgca | tcatcgagcg | 240 |
| ctggcggtcc | ccaatcacct | catctggctc | atcttcttct | actggctctt | 300 |
| ctgaatgccc | tggctgagct | catgcagttt | ggagacccggg | agttctaccg | 360 |
| aactccgagt | ctgtcaccta | cttctggcag | aactggaaaca | tccctgtgca | 420 |
| atcaggtagg | tgggggtgtgt | gtgtgtgtga | tgtggAACAT | ggctgtgaac | 480 |
| ttccatgccc | cctctctgc | agacacttct | acaagcccat | ctgaaccgct | 540 |
| agtggatggc | caggacaggg | gtgttccctgg | cctcggcctt | cttccacgag | 600 |
| gcgtccctct | gcgaatgttc | cgccctctggg | ckttcacggg | catgatggct | 660 |
| tggcctgggtt | cgtggggccgc | tttttccagg | gcaactatgg | caacgcagct | 720 |
| cgctcatcat | cggacagcca | atagecgtcc | tcatgtacgt | ccacgactac | 780 |
| actatgaggc | cccagcggca | gaggcctgag | ctgcacctga | tacgtgctca | 840 |
| acctcacacc | cgctgccaga | gcccacctct | cctcccttaggc | ctcgagtgct | 900 |
| ctggctgcac | agcatccctcc | tctggtccc | gggaggcctc | tctgccccta | 960 |
| tcctgcaccc | ctcagggatg | gogacagcag | gccagacaca | gtctgatgcc | 1020 |
| cttgctgacc | ctgccccccggg | tccgagggtg | tcaataaaagt | gctgtccagt | 1080 |
| aaaaaaaaaaac | tcgaggggggg | gcccggnacc | caatngccc | na | 1122 |

<210> 30

<211> 778

<212> DNA

<213> Homo sapiens

<400> 30

| | | | | | |
|-------------|-------------|-------------|-------------|------------|-----|
| ggttctctgg | ccaaagaggag | caattttcgt | gccatcagca | aaaagctgaa | 60 |
| cgtgtggacg | gcgagtatga | tctgaaaagt | ccccgagaca | tggcttacgt | 120 |
| gcttatgtgc | ccctgagctg | ccgaatcatt | gagcagggtgc | tagagccgcg | 180 |
| ccttgcgt | gtggtaacggc | tgctcaactg | magtgacttt | gcattcacag | 240 |
| ggaagacaag | gctccagtg | agtcctcg | cctcatctt | gtgggtttct | 300 |
| tacattctt | gagatctcag | ccctccgg | tctgggcaga | tggtgggttg | 360 |
| tttgcgtac | acagcagtca | caaacagcgc | tcgccttatg | gaggccatga | 420 |
| agcctgtatgt | ttttccccggc | cagtgttgc | atcttccctg | gtgaggtgaa | 480 |
| gcaggcatct | ggcacccagc | tgctataacc | aagtgtccac | caactacctg | 540 |
| ggagcatgga | acgtgttggg | attttagagaa | cattatctga | ctaagagccg | 600 |
| tcccaggata | tttctctttt | ctgtttatga | agtacaaccc | cacttcctgc | 660 |
| ggaagaggca | tcctttgcta | aatcctgttt | aatgttcatt | gatgcgagca | 720 |
| cagatgtaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaggg | 778 |

<210> 31

<211> 2476

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (853)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2227)

<223> n equals a,t,g, or c

<400> 31

| | | | | | | |
|-------------|-------------|--------------|-------------|-------------|-------------|------|
| actcaagacc | ctgtgcacct | ctcagcaggc | ctttgctgga | cagatgaaga | gtgacttgtt | 60 |
| tctggatgat | tctaagaggt | tatcaatact | ctggctgacc | atcgatcatcg | tggactgac | 120 |
| tttggtgaa | gtccttggtt | acttacatt | actgtgttc | tgagaagtt | taaatttgcc | 180 |
| atctccctct | gcacaagtta | cctttgtgt | tcttcctga | agactatctt | cccgctctcaa | 240 |
| aatggacatg | atggatccac | ggatgtacag | cagagagcca | ggaggtccaa | cygccgtaga | 300 |
| caggaaggaa | ttaaaattgt | ccttggaaagac | atctttactt | tatggagaca | ggtggaaacc | 360 |
| aaagttcgag | ctaaaatccg | taagatgaag | gtgacaacaa | aagtcaaccc | tcatgacaaa | 420 |
| atcaatggaa | agaggaagac | cgccaaagaa | catctgagga | aactaagcat | gaaagaacgt | 480 |
| gagcacggag | aaaaggagag | gcaggtgtca | gaggcagagg | aaaatggaa | attggatatg | 540 |
| aaagaataac | acacctacat | ggaaatgttt | caacgtgcgc | aagtttgcgg | cggcgggcag | 600 |
| aggactacta | cagatgcaa | atcaccctt | ctgcaagaaa | gcctcttgc | aaccgggtaa | 660 |
| gtttgcttgt | tttccttgct | tttggacata | gtctgcccagg | tcaggacatg | gatacatttt | 720 |
| tctccctacg | gtctgtgtct | caagccctgc | agagggagat | ggcagagagg | aaggctgcct | 780 |
| acaagcatca | cagtcccatc | ccttggta | accgtgtgc | gcaaaaacac | cttcatcccc | 840 |
| acccagtggg | gcnccccattc | taatattcta | agtgtcagag | gttccgtatt | tgttaatarca | 900 |
| aatggccct | gactgtaaat | tagtgaagag | tgaatgtaac | ttattaccca | cagggacaaat | 960 |
| tccaaatgag | ggccttaaat | gatgctcagc | taagctggtt | cttgtgtggc | ctctgtaccc | 1020 |
| tcaaaagctg | ccgagtccta | tgatrracg | cgatggact | tgtacactt | aagtgaaacac | 1080 |
| cagttttaaa | acttgctttt | tttagaattc | ccacctcatt | tttccatgga | caaaagtatt | 1140 |
| ctttatgtcc | tagtgcactt | acaatttgg | attacctggg | agtgaaaaga | aatattacag | 1200 |
| ccatgcctaa | ctgacttctt | gaggtaaagat | tgttctgtca | gaaaacccctc | tcccagttcc | 1260 |
| cctgcagctc | ttcaggaatc | cacatctctc | cagagctctt | tgttctcatg | ggtggcacct | 1320 |
| ccagagtgaa | gaagatcctt | tgtcaagaag | gaaaacagag | gggaaatgag | agggtcctgc | 1380 |
| aggcagagct | ggaatcaact | tccactctgc | ctcttgcaag | ctgtgtgacc | ctgggcacaa | 1440 |
| tttctccctc | ctctggaaac | ctctgtttt | ttagatttgg | agcaggrtgg | tcacactgac | 1500 |
| cttgcagagt | tctgagaatc | agagacagaa | cataaaaggc | ctggaaaaca | ttctccaaaa | 1560 |
| agaagctgca | acatgtgtgg | acaatggct | tttcatgcct | ctcttactgt | ctcttactgt | 1620 |
| ctattgacct | ggtgcaagaa | acatgcctg | gtgatggctg | tgagggagga | atgaggatag | 1680 |
| acatagacac | tcctgtgtct | caaacatgct | tctttattac | tctgttatga | ctctgtcttc | 1740 |
| cctggggcag | gaccccagcc | tgccatcatt | tgccagacaga | cacagtggca | tgtggagaca | 1800 |
| acagtgtgtc | ccartgactt | ttctttaccc | cccagctgtc | ggcagttactc | agtggaaagg | 1860 |
| tgatatgaca | ctgatactgc | tattttggaa | ccttggaggat | ggaaagggtgc | aaaaatctat | 1920 |
| caccagcaac | agaaggtgca | gacygtgtt | gtggcggtaa | ttttgtccat | caaataata | 1980 |
| tgtgtgaaaa | cattccctcc | tttggcccta | caggtcagaa | tggcggcag | ggagcatcgt | 2040 |
| cattcttcag | gattggccctr | ctggccctac | ctcacagctg | aaactttaaa | aaacaggatg | 2100 |
| ggccaccaggc | cactccctcc | aactcaacaa | cattctataa | ytgataactc | cctgaggcctc | 2160 |
| aagacacctg | csgagtgct | gctctatccc | cttccaccct | cagcgatga | taatctcaag | 2220 |
| acacctnccg | agtgtctgt | cactccctt | ccacccctcag | ctccaccctc | agcgatgtat | 2280 |
| aatctcaaga | caccccccga | gtgtgtctgc | tcactccct | tccaccctca | gctccaccct | 2340 |
| cagcgatga | taatctcaag | acacccccc | agtgtgtctg | ctcactccccc | ttccaccctc | 2400 |
| agtggatgt | aatctsaaga | aactaasgaa | gaataaataa | ataatataaa | aataaaaaaaa | 2460 |
| aaaaaaaaaa | actcga | | | | | 2476 |

<210> 32

<211> 691

<212> DNA

<213> Homo sapiens

<400> 32

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| gaattcggca | cgagctcg | ccgaaaaatt | attatthaag | attaaaccat | ageatcacat | 60 |
| tttcagtaat | ggcaaataaa | acttgaat | cataatgagt | ttatattcat | catcattcac | 120 |
| tggaaacagta | taaaaacaag | atctttacat | taagagat | tacattttt | tgtttacttc | 180 |
| ttgaatattt | tcctaattct | ttttatattt | gaacatattt | tgttgattt | tgctaataga | 240 |

| | |
|--|-----|
| aagttaccaa aaacttagaa ataagacaaa tttatcatttgcatgtttcc | 300 |
| tgaagtaatg tctaaaagat tcaccccttggatattttgttt ctttctgaga ttgtacttttgc | 360 |
| tttgcgttttac tacttattac ttatttagggc cttggctctgtgaagttggatgttacttttgc | 420 |
| taaatggtat tcataagat acgtgatttttcagggtagaaaaaacaac cctacaagat | 480 |
| tttttttttc cagcaaaaaca tttaaacagct ttgcctcaaa cttagcaaat gtatccatc | 540 |
| atgactttct taaactgaca acataacaac catttgaatt ttcccttgaa ccagctttac | 600 |
| cacctgtggttttccatttccaca ttatttaggtt aaataaatat ttgacgtgtg | 660 |
| ttcactttaa aaaaaaaaaaaaaaactcg a | 691 |

<210> 33
 <211> 700
 <212> DNA
 <213> Homo sapiens

| | |
|---|-----|
| <400> 33 | 60 |
| ggtcgaccca cgcgtccggatatttaagg gtaaaatttt tctacttttta aagcttaaaa | 120 |
| aaatgtttttt ttactactgt aaaagtaatg cagagaaatg ttcaacttacc aaacacatac | 180 |
| ctttgtaaaa atcaccactt aaagttttgtttctaaagatt ttaggacacc aagatgcaaa | 240 |
| taatattttt ggctgttacc tgctcttca ctactgctga gtctgcagtgc aagatagc | 300 |
| tacacagttac ctcaagccctc ctgctcagtt tttaacatct attgataata ctaattacaa | 360 |
| gaaaatttaa aatgtctttt tgcaaaaaga taccataagc agtcaaaaaca caataaaaaa | 420 |
| aaaaaaaaagag agagatgtaa acaattactt tccggccggg tgcgggtggct cacacctgtatcccgat | 480 |
| tttggggagac caaggcgggaa ggattgccttgc aggtcaggag ttcaagacca | 540 |
| gcctggctaa catggtaaaa acccatctt actaaaaata caaaaaaaaaa gcaaggcgtg | 600 |
| gtgacgcatttgcgttcc caggtactcg ggaggcttag gcaggagaat cgctgtacc | 660 |
| caggagatgg aggttgcggtagccaaatgcaatgcactg cactccagcc tgggtgatag | 700 |
| agcaagactc tggccaaatggggcgcc | |

<210> 34
 <211> 1722
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (413)
 <223> n equals a,t,g, or c

| | |
|--|-----|
| <400> 34 | 60 |
| tnactatgcc ctgcgcactgggccttga acctgcttag gcctcagttatccccaaagatcccaagggatcccttgcagg agttgaagga gagggctctg agccgataca acctcgctcg | 120 |
| ggggccagggttccagagggc tgggtgtctgg ctccgacgc ttccaccttac ttctgtggcc | 180 |
| cccaagcaggagatccactcg gatgacagggc caccacgttc tcatcaacca | 240 |
| ggtgcttttc tctcctgact cccgcattcgatggctactgtgc ttctttgaca agtccatcaa | 300 |
| gctgtggatggcaggacgg gcaagtacccggatcccttgccttgc cgcggccacgg tggctggccgt | 360 |
| gtaccagatttgcgtggctcg ctgacagtcg gctccctggc agcggcagca gtngacagca | 420 |
| cactgaaggttggatgtg aaggcccaga agctggccat ggacctggcc ggcacacgcgg | 480 |
| atgaggtata tgcgtttgac tggagttccat atggccagag agtggcaagt gttggaaagg | 540 |
| acaaatgccttccatgg aggatgtgg acggccggaa gttctctctg accccaccc | 600 |
| cgactcggcc tctgcccagct gccttccttgc ccagagaaca aaggctgaga tggcgtgtca | 660 |
| cacacccctcc ccaccaggatgg ggacctgaga atgcgtgtgg cctgctgtcc tgcatagacc | 720 |

| | |
|--|------|
| ggaatgggt tttcccacag atccccgcct gtggcacacc ccagagccag aaatcgaagg | 780 |
| tcacaggaag ttgtcactga acttggcccg tgcgtctac tctgtacctt gctggtagc | 840 |
| acaggggtgg tgggcagcca ggctctatga gtggccccc agtgcagct ctgtacaggg | 900 |
| tcaagatcca ggttctatga ccaaataagt aacttaagtt ttgtgtgtg ggttctaatt | 960 |
| cctgtccctt gatccccat gactcaatca aggactgtgc taaatgagat tgcgcagccc | 1020 |
| ccgccttgc actggactac gccaaaacca cactgaccag gcacttgct tccctctt | 1080 |
| ccccctgtt ggttaagagag aggccatgg tgatagtggc caaggagaat ctaggctgt | 1140 |
| attgttgcc actgcagtag gcacccggca catgtactg ctggcatgaa atagaagtgc | 1200 |
| agttccctca tcgcactggg taaggccctt agtattggac agcacacaga aaggtttca | 1260 |
| tcatcaagag agttctgtg gtcagccctg ctccagggga tgcctctgcc ttgcatacg | 1320 |
| acactgctt gggccctgcc aggcaccaag cactgcctg ggcccatggg atagagcggg | 1380 |
| gaaggtgtg gctctccag aggattccct cagatgggg ggcagcagta tgagctctga | 1440 |
| gcagaagttt gtattgttga tacagaggaa gttcttgcc acgagaactt tcaagcagt | 1500 |
| aaaggaattt ccatcaggac tcagacccca ggcgagatc ttgcctgaa tgaccctgc | 1560 |
| ctctgctttc tcctgcatacc catgctaagc aggtcatgg tctgaactac tcagattgga | 1620 |
| tttccaaacc atccctgtat aaactgctca gaactaraaa qaaaaaaaaaaa aaaaaaaactc | 1680 |
| gaaaaaaaaa ccgtacccaa ttgccttat agtgagtcgt at | 1722 |

<210> 35

<211> 878

<212> DNA

<213> Homo sapiens

<400> 35

| | |
|---|-----|
| gcccacgcgt cgcacccacgc gtccggagta cgctcggag ccctgcctt ggcgaattgt | 60 |
| ggatgattgc ggtggagct tcactatggg tgcgtctcggt ggcggagtct tccaggccat | 120 |
| caagggtttc cgcaatgccc ctgttggaaat tcggcacccgg ttgagaggta gtgcataatgc | 180 |
| tgtgaggatc cgagcccccc agattggagg tagttcgca gtgtgggggg gcctgttctc | 240 |
| caccatygac tggcgtctgg tgccgcttcg gggcaaggag gatcccttgc actctatcac | 300 |
| cagtggagca ttgaccgggg ctgtgcttgc tgcccgctgt ggcccaactgg ccattgggg | 360 |
| ctcagcaatg atggggggca ttctgttggc cctcatttgc ggcgttggca tcctcctcac | 420 |
| tcgctacaca gcccacgcgt tccgaaatgc gccccattc ctggaggacc ccagccagct | 480 |
| gccccctaag gatggcaccc cggccccagg ctaccccaacgatc caccatgggg | 540 |
| aagccactgc caccatgggg gctacttctc ggttccctcc ccgtatgtct acctcgaagg | 600 |
| gagggttgc tcccagtttgc ccctgggacc ctccagagag ggtttctact ctgtccctta | 660 |
| gtcccaggt gggggggggg caccggcgt gccctgacag atgggtcccc ttttctctc | 720 |
| tcagggcacc ccagccccac actcacatgt acgaaggcttcc caccggcgt ccttgggtgt | 780 |
| gcaccctgtat gagtattttaa agcccggtttt gaaatgccwa aaaaaaaaaaaa aaaaaaaaytc | 840 |
| ggggggggggc cccttaaccc atttgggcct taaggggg | 878 |

<210> 36

<211> 954

<212> DNA

<213> Homo sapiens

<400> 36

| | |
|---|-----|
| gaatttcggca cgagaggaag agcgccagag cctgctgccc attaacagg gcacagagga | 60 |
| ggggccagggc acttcccaca ccgaggggcag ggcctggcca ctccccagct ccagtcgc | 120 |
| ccagcgcacc ccaagaggat ggggggtcac cacctgcacc gcaaggacag cctgacccag | 180 |
| gcccaggagc agggcaaccc gctcaactag ggccttcgt ggccttcgt ccattgtctc | 240 |
| accaggactg caaggagtc ccacacccgt gcaaggacag gtccctgtc caagcccttg | 300 |
| acccctcttc tatccagacc cgcacagctg ttccctgtgt ggttgggtc aggttgggg | 360 |
| ccatgccagg cctgtcagct ggcgttgcactg actgcagcag cttgcctcat ggttttccct | 420 |
| ttttctttaga atattttttc ttccagaggta acatgcagtt gggctctcaag acctttctc | 480 |
| caatcagccc aaccacccca agactgggtt tttctggggc gctgaggagttt tttatcgtat | 540 |
| tcatcttcca tccttcata gtcacaagtt ttgttattttt gttttttttt ggggggtgtat | 600 |

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|-----|
| gtgtaattgt | taacctcatt | tccgtttcct | acctgtttgc | ttccccccccc | agtccctccgc | 660 |
| atgagctgtt | gccctccagg | ggcctggcac | agctggcctt | ggggacgagg | gagaggactg | 720 |
| attcaggggcc | ccctcagctg | tctcctccct | ccctctggaa | aggagggtgg | ggctcagggg | 780 |
| cctcaagctg | ggctctgtgt | gaggcctggc | ccccactccc | aaccttggct | ctagactgtt | 840 |
| actcttaagc | tttgagaaat | tttcacattt | atgactat | taaaatcaaa | taaaactatt | 900 |
| ttactggtaa | aaaaaaaaaa | aaaaaaactcg | agggggggccc | gtacccaatc | gcct | 954 |

<210> 37
 <211> 793
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|-------------|-------------|-------------|--------------|-----|
| <400> 37 | 60 | | | | | |
| ggcacgagat | tttcttcatg | cagtattctc | agattggaaa | catgcttcat | gtttcttata | 120 |
| aataaccctc | aattatgagg | gcgtactttt | cacttgaag | aaaatttact | tgcatattaaag | 180 |
| tggctaacaa | ttcttcttg | ggcaggatgt | aaaattttcc | tctcctctaa | taccagtact | 240 |
| gttagctca | cattctccca | ctttccctt | tttcaggtgg | ttcacgtatt | tgggatttttta | 300 |
| tgaaacctca | gaagcagaca | tgttaactttt | tcttatcttt | ttattccctg | aggtagtcct | 360 |
| ggggctctta | agagattaca | gttcttaaaa | cctggaaagt | gacaccagag | agtagatct | 420 |
| tagttcccaa | aattaaagtt | actttctagg | gcataaaacc | tttcagaat | tcagattaaa | 480 |
| ttttattttt | tttttctttt | ttctgttaacc | ttatatttga | ggggaaaattt | ttattttcaa | 540 |
| cttttgcata | tatctaattt | aacatttggg | aaaactgtaa | atggggccaaa | gtttctccct | 600 |
| ttatatgatt | ttccagattt | ttaccacttt | cttagtgcca | cttgatgcta | ggcattgtct | 660 |
| attggagact | cactggtacg | taactgcagg | tttaccatg | gaaccacata | tacacatgtc | 720 |
| ttgaaattga | gggttagggt | ttccagaagg | acttagttgt | cctgtgtttt | tgtctgcccc | 780 |
| atgccaagaa | ccactaagaa | cagtttgtt | agtgaaaactt | gggtctacac | gtaaaaaaaaaa | 793 |
| aaaaaaaaaa | aaa | | | | | |

<210> 38
 <211> 559
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (9)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (35)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (42)
 <223> n equals a,t,g, or c

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 38 | 60 | | | | | |
| ccntgatnc | gccaagctcg | aaattacccc | tcacnaaggg | ancaaaagct | ggagctccac | 120 |
| gcgggtggcgg | ccgctctaga | acttagtgat | ccccgggct | gcaggaattc | ggcacgasca | |

| | |
|--|-----|
| cacttgtacg ctgtAACCTC atctacttct gatgtttta aaaaatgact tttaacaagg | 180 |
| agagggaaaa gaaacccact aaattttgct ttgtttcctt gaagaatgtg gcaacactgt | 240 |
| tttgcattt tatttgcac ggtcatgcac acagtttga taaagggcag taacaagtat | 300 |
| tggggccat tttttttttt tccacaaggc attctctaaa gctatgtgaa attttctctg | 360 |
| cacctctgta cagagaatac acctgcccct gtatatcctt tttccctc ccctccctcc | 420 |
| cagtggtaact tctactaaat tggtgtcttg ttttttattt tttaaataaa ctgacaaatg | 480 |
| acaaaaaaaaaaaaaaa aactcgaggg ggggcccggt acccaattcg ccctatagtg | 540 |
| agtcgttatta caattcact | 559 |

<210> 39
 <211> 1263
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1091)
 <223> n equals a,t,g, or c

<400> 39

| | |
|--|------|
| ggccgcctt tttttttttt ttttttttaa aaacaaaaac ggttttaatg gttaaaacag | 60 |
| atgaattaat aggttataaa taaccattaa ctaagggaag ccctagaaca agaaataagg | 120 |
| attttaattt gcatgcaaaa cctagttacc ataaaaacca atgcaatacc aaaatatctc | 180 |
| agcttcctag catagactcc aggtcttttcc atttccataa cttggcagtc ataatatgt | 240 |
| cactttcata tgcacctggg tggagggtaa taagtcatt cacataggac tacaatatac | 300 |
| tctcacaggt aggagggcac aaaagaacaa tattttcctc cacttttttgg ggtccatctt | 360 |
| aaaaacaaaaaa aaaggcactc ccaaagggttc cttggtaaca cttttgttag gtttcttaat | 420 |
| tactaacata atctttacat gtaaggtaa tggtccactc atttcataga tctggaaacc | 480 |
| atcaggcatt ggaactgcct ttaactcaca tgccaaacaa ctggcttct taaacaatga | 540 |
| aaaaaactgt atacttggg taaaacatt tgggctttgt ttccykgaca atttatataat | 600 |
| gcttaatcac tggactttgg catcagagc caaacatatac atggaactga aagaaccaca | 660 |
| atatgacatg gtgacagaag actctttgaa tcattattct gttttccact atcagctgct | 720 |
| ccagctccct tataactaattc caactttgtc cctcagagca cccatgtct gaaacctaggt | 780 |
| ttaatctctc tgctgaaaga tttattaaag atacttagat aaattaccaa gtctttctct | 840 |
| acgatcatca aagagtaagg gaagtcaaat gctcatgggc agttgtccac tattcacaga | 900 |
| atctttagaa actatggcc tgaggccaag gagaatttgc tttatcacta aatctgaccc | 960 |
| atgttgagcc atactaaaac tgcacttggg tactagtctc aaatcaaatt gagcttatgt | 1020 |
| attgctctac atttattgca tcccatgctg tggcaattt ctgatgtca ataagagaaa | 1080 |
| tacggcaatt naaaggcttc accacaagcg tcacattcca tgggtttcct tgggtttca | 1140 |
| cctctgcatt gatcttctga tgggtgacaa gatgcgcgtgt tgactgaaac ttttgcgca | 1200 |
| cttctcacac ttataaggtt tctctcctgt gtgtattctc tgatgtca taagaccgaa | 1260 |
| gtt | 1263 |

<210> 40
 <211> 455
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> n equals a,t,g, or c

<400> 40

| | |
|---|-----|
| ggaattnccg gggtcgaccc acgcgtccgc ccacgcgtcc gcccacgcgt ccgcaaataat | 60 |
| atggcagga gatattccag aacatctagg tgcaggtaaa cagttctaaatg tccaaagaagt | 120 |

| | | | | | | |
|-------------|------------|--------------|------------|-------------|-------------|-----|
| tatggaggg | ttgatgctac | cacttctaa | tgttat | tctgaaggaa | ctgtatggga | 180 |
| ggagatcatt | gtttctggaa | gacagtacta | ttagttat | agatggttct | ttctgggtct | 240 |
| gaatgactaa | tcagtcattc | agtcaataac | actgaccacc | tactataatgg | tagtcattgt | 300 |
| tcttaggtatt | gagcatgtaa | tggtggaaga | taaatggcag | atgagaatcc | tgcattttaga | 360 |
| accttaagtc | tgatggatg | gcgaaagaaa | tatagttat | aagcataatt | ttaggtatgt | 420 |
| attcatttcc | aaaaaaaaaa | aaaaaaaaaggg | cggcc | | | 455 |

<210> 41
 <211> 1128
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|------------|------------|-------------|-------------|------|
| <400> 41 | | | | | | |
| ttacaaatga | ttactacagg | aatagtggcc | acttaatgtc | agttactccg | gtggaagaat | 60 |
| ttatctagtt | ttttttttt | tcttttttgg | aaggatggtg | tgaaaaatag | caagattaga | 120 |
| gaatgagttg | tatagttttt | tctatcacat | ttcatctaaa | atgatttggaa | ggacttttga | 180 |
| agattttac | caacatcctt | aaatcaactc | caggttggat | gaacaactga | tttaaaaacaa | 240 |
| actaagagaa | cattaactag | atgtgggctt | tttaaaaat | ataggtattg | catttcctac | 300 |
| cttggatttt | attcacttt | gaatactta | gagggcttaa | ctttcaactc | tttaaggtag | 360 |
| taatggatag | ttttatactt | gttctcacaa | aattgtttag | gtcagtttat | atcattgctc | 420 |
| catgcattga | ttataaaaat | tcagtattaa | tttttctga | tcttataa | tttataaggag | 480 |
| ttttcttttc | tcttataaaag | tgtttcacct | tatgtaaaac | aaatgcctgc | ttgcataattg | 540 |
| gaagatgttg | aaattagttt | tagacaaaag | tggccatca | attcagacac | tctgcttgg | 600 |
| tgccttaccc | ttttcattag | tgcattctt | gcttctgaaa | cttggcagaa | actcgtagc | 660 |
| cagtcactg | ccttctgac | aatgtgttgg | gtcacgtatg | cttggtat | gccttacta | 720 |
| ctttaaagt | tctacagttt | attacttgc | caagtgttac | taaatcc | tcttatgtgt | 780 |
| actggatgga | gaaaaaatta | tagccagcac | tttgagagga | aagttttcag | aaacaatatt | 840 |
| aactggca | actaactgaa | ggccacagga | gatgctatca | atgttattt | taatctgaag | 900 |
| atgtaca | gctgtgaggc | tcatttcaaa | ctattttag | gtgttaaaat | atataatatgc | 960 |
| tgtttctcag | ctgttccact | caaaccgtgt | taggactctc | aaaggtaaaa | tgtcacaggg | 1020 |
| gcttttcag | tgttacagag | ctcagcagct | gtgttgccc | ctgttctaca | ccaatttcag | 1080 |
| ttcaataaaa | atgttaactt | tgcaaaaaaa | aaaaaaaaaa | gggcggcc | | 1128 |

<210> 42
 <211> 648
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| <400> 42 | | | | | | |
| gaattcggca | cgaggcaata | tttgcctcac | ccaaacaccac | aaagattttc | ttctgtttc | 60 |
| ttctagaact | tttttagttt | tagggtttat | atttaggtct | gtgatccatt | ttgaatcaat | 120 |
| attagcatat | gaggcaaa | ggagatcgaa | gtttttat | ttccttatga | ataccaggat | 180 |
| gttccaaacac | cacttattaa | aaacactata | cttattccac | ttagttgtt | ttgtaccttc | 240 |
| atcaaaaacc | agtttcaat | atatctgtgg | attaaatttt | ttatttttat | gtttat | 300 |
| agagacggtc | tcactatgtt | ttccaggctg | gtctcaaact | cttgcctca | agtgatcctc | 360 |
| ccatcttggc | ctcctgagtc | gctgggagga | tcaaggcagga | ggattttctt | agcctgggag | 420 |
| gttgaggctg | cagttagccg | agattgtcc | actgcacttc | agcccggca | atagagttag | 480 |
| atcctatctc | aaagaaaaaa | agagttattt | tgttatatct | tttttaatcc | attttcttt | 540 |
| aaccctttat | atccttat | ttaaactaga | gttctgtca | agtgcactcc | agcctgggt | 600 |
| caaagcaaga | ctccgcctca | aacacaaaaa | aaaaaaaaaa | aaactcga | | 648 |

<210> 43
 <211> 736
 <212> DNA
 <213> Homo sapiens

| | |
|--|-----|
| <400> 43 | |
| tcgagttttt tttttttttt tttttgagac tgaatttcac tcttgttgcc caggctggag | 60 |
| tgtaatgggt caatctcgcc ctgggcgaca gagcgagact ccgtctcaaa aaaaaataaa | 120 |
| taaataaaat aaaattaaat taaaaaaaaa aaaaaaaaaagt ctgctttgaa aaccagtatc | 180 |
| catagacttc tggcagtcat ttctggggtt taattttgga tgtgacaaaag gttgtttcc | 240 |
| actggactta atttttcac atcgctctaa ctttgaaaaa cacagataca gtcctttgc | 300 |
| tgaataaaat gaaaactcga gcctaaat ttgatggat aacggcatag atatccctg gacttccagg | 360 |
| acagtaatat catgtactac tttgtcaaaa aaattttctg gaggttttc tagaggaaga | 420 |
| aactaagata acaacaacaa aaaagacaaa tccaaatgc ttacttgaag agcgactact | 480 |
| catgtttcta gagaattttt tggtcatact atgtcatggg gttatttcctt gggggcttca | 540 |
| gttctgcttc agaatttctt tagtagttat ctactgaccc catctggtaa aattatagag | 600 |
| gaagttacag tcgttaaagc ttctgtcaac tcgatttcta aaaattttat gtaaagagat | 660 |
| attttaagag aaataagaaa ataggagatc agggcaaatg aatctaaaga tcttttagctt | 720 |
| tactcgtgcc gaattc | 736 |
| | |
| <210> 44 | |
| <211> 600 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> SITE | |
| <222> (547) | |
| <223> n equals a,t,g, or c | |
| | |
| <220> | |
| <221> SITE | |
| <222> (549) | |
| <223> n equals a,t,g, or c | |
| | |
| <400> 44 | |
| gggtcgaccc acgcgtccgc caaatccag tcttaccat ttcatatcag gatcggttg | 60 |
| tgagggata acttgggttt ctgtcctcag ttttctcaa tttcaatcca tcttataaaat | 120 |
| cccagcaaaa ttaattttcc taaagacact tttagaattt ctgcaatagc tccttgagat | 180 |
| caggatgccca gggatattca ttctgttcat gacactagct agcacatgg atcagcgctt | 240 |
| gttaaacat tctcaaccc aagatcaactc ctagggaaaa aagtctccaa tggcttcccg | 300 |
| ttgccttcat ggtattaaac ctgcaattcc agagctcgat atttaaattt tttagggggc | 360 |
| tggaaatttct cataataactc cttggctatc tactaaacac taagtactag gcatacagaa | 420 |
| ataacagata cacttgggtc aggcacgggt gctcacgcct gtaatcctaa cactttggga | 480 |
| ggcaagggtg ggtggatcgc atgagctcaa gagttcaaga ctagccagg caacaaagga | 540 |
| tcctgtntnt acaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagggcggcc | 600 |
| | |
| <210> 45 | |
| <211> 687 | |
| <212> DNA | |
| <213> Homo sapiens | |
| | |
| <220> | |
| <221> SITE | |
| <222> (57) | |
| <223> n equals a,t,g, or c | |
| | |
| <400> 45 | |
| aattcggcac gagaaaaat aaaaaaaaaa agccaggtgt ggtggtggc acctgtnatc | 60 |
| tcagctacgt gggaggctga ggcaggagaa tctyttgaac ctagaggca gaggttgcag | 120 |

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|---------------|-----|
| tgagccaaga | ttgtscgcagc | ctggggcgaca | ggtgagggctc | ttgtctcaaa | aaaaaaaaagt | 180 |
| cacatcttca | tgaaccttca | gactctggag | ttgggtgtcg | gcttttttag | ccagcttttg | 240 |
| tgggaattgc | ctttgaccta | ttaaagaagg | aaagtgggta | atggagtc | cc agccactcaa | 300 |
| gagactggat | atcccccgag | aatggcttgg | gttaccagct | atggacccctt | ggaagatgaa | 360 |
| tctaattcctt | ctcaactggtt | tttctttgca | aattcatttg | cttttatttt | tctaataaaca | 420 |
| ataaaactcta | tttccatgt | tctcagggcc | cctgggtaga | cagacacagc | ttgatttcag | 480 |
| agcagacata | ggcgaagaaa | acatggcatt | gagtgtgctg | agtccagaca | aatgttattt | 540 |
| atatacacat | ccaaatttga | agagaaaatg | tatttcttta | ggtttcaaac | actgttaatag | 600 |
| atataaaagca | aaaataaaaaa | cctgttgcaa | agttcaaaaaa | aaaaaaaaaa | aaaaaaaaaaa | 660 |
| aaaaaaaaaa | aaaaaaaaag | ggcggcc | | | | 687 |

<210> 46
<211> 697
<212> DNA
<213> *Homo sapiens*

```
<220>
<221> SITE
<222> (97)
<223> n equals a,t,g, or c
```

```
<220>
<221> SITE
<222> (394)
<223> n equals a,t,g, or c
```

```
<400> 46
ggccgccc tttttttt tttgataaaa gaaaagattg gtcttgctc tgtaaaactg
aggaacaatt actttagata actgggttta gtttgcctt tctttcttga cggaagcaaa
acagatatgg gttctaccct caagaagctt tagatgaatc agagatatac acataaaaata
aagaactata aaacaattca ttacgctt gatacgatgtataataaaaaa agtacaggaa
acaataatcatataacag agggataaca tcacacaggg aacaacagta tcacatagca
gggatatacaaggatcct aggtAACCTG gtctggatatacaaggat cccgggtgac
ccggtctggc tggtaagagg tttcccttagaaancgatca gtgagagctg agagagaagc
aggcagagca agktgatggg gcaggggtgg ggagagagca gaagcgtgac ccaagagggt
cccaggccaa aacctttgca ctcagtgact ctgaaagaat gcagagggc tggctcaa
agctgcagct ggaaaggtaa gaggggccag gcaactgcagc accatgtgga tcacactata
aacttgaat atcatcctaa gagaatggg aaaccaatta tggatTTTA aaaggaaata
tttttatttc catttaacc ggacgcgtgg gtgcacc
```

<210> 47
<211> 286
<212> DNA
<213> *Homo sapiens*

```
<220>
<221> SITE
<222> (1)
<223> n equals a,t,g, or c
```

```
<220>
<221> SITE
<222> (3)
<223> n equals a,t,g, or c
```

<400> 47

| | | |
|---|------------|-----|
| ntnctagcac tcaggagtcc aaaccattgc ttttgggtta gaatgcata | agaacatgca | 60 |
| cgtctatctg aactacaata actttctgct tartctactt aggctaattgt | tgaacat | 120 |
| ttcattcaca caaccactgg tggcagaaga agagagacct cttacaccac | tata | 180 |
| gagctgaaat gtcacatgag tttaaaaga tgctytttaa agaaaaaaaaaa | aaac | 240 |
| sargaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa aaaggg | cam | 286 |

<210> 48
 <211> 858
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (843)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (847)
 <223> n equals a,t,g, or c

<400> 48
 ggccgcctt tttttttttt tttgataaaat acaaagatac atgtaaagtt ttacttacct
 gattttaaa acaggctacc aaaatttatac caaatatatt aaaaaatgag actgtttaa
 aaaccttgc ttccatatt gtgactccac taagcggta aaaagttcag gacagagatg
 gaaaggaaag aaggaaacag gaagaagtga aactaggaag gtggtgcag tggcacatgg
 atgaagaaaag agagatcatc agccatggag aattttgtaa tgtaagtaga gagagagatt
 gggtaggaag acaggctca cagtttgcgtaa agttaaggg aactaccat cgtaccctgt
 cattgactag ggctgtgagt tatgtatgtc tgcattctctc tgcaaaagac ttaccacttc
 tggcaagtga ttaaccactt ctggcaactc ttcatctt cttatctt aatattcatc
 tacatcaactc taaacagcac agccccagaa gcatggaaag gggagttatt agtatggaaa
 ggggagttac tcttctggtg tagtggtcccg attgagtcca tggcttccca gccttaccag
 agctgataaa aatgtcaatt ctttgggc caatcttgc cttccagtgt gtttagccc
 taatgaggtc atggttatctt ctagacttct gagacttact gtggcttga attgacacaa
 acactaattt tctgtcaaag gctagagtga tggatgttat atgcctgcgg acgcgtgggt
 cgaccggga attccggacc ggtacctgca ggcgtaccag cttccacta tccgtgcgtc
 agncgcnaact gtaaccct

<210> 49
 <211> 1307
 <212> DNA
 <213> Homo sapiens

<400> 49
 ggtcgaccca cgctccggaa gcccgcggg agaggccgcg gccccttccc gttgcctgcg
 gcccggcc ggcattcaga gcccctgcgc tggcgctaaa tttaaaaacg taacacgagc
 agcaggctgg tctcgaaac gaaacgaaat tcggccctgc gcccctcc cggcgctgc
 cggccctca gcccgcgcg ccacccggaa cagacccttc tcccgccatt ttccgggggg
 ctgggagact gaggccgcg ggcgtgagcc tggccgcgc cggaaagaggc gggccgcatt
 gcccgcgcg tggactgcgg ggacgggtt ggcgcggc agcacgttt cctggttca
 gaatattaa aagatgttca aaagaagatg aaaaatggc taatgttgc taaaactggtt
 aacccctgtt caggagaagg agccatttac ttgttcaata tggcttaca gcaactgtt
 gaagtaaaag ttttcaagga aaaacaccat ttttgcgttta taaatcaatc agtcaatca
 ggaggtcttc tccatgttgc cacacctgtg gatcctctat ttctgccttc ccactacctc
 ataaaggctg ataaggaggg gaagtttgc gcccgttgc aagttgtgggt ggataacgtg
 tttccaaatt gcatcttgcgtt gctgaaactt cctggactt agaagttact tcatcatgtt

| | |
|--|------|
| acagaggaaa aaggtaatcc agaaatagac aacaagaaaat attacaagta cagcaaagag | 780 |
| aagacattaa agtggctgga aaaaaagggtt aatcaaactg tggcagcatt aaaaaccaat | 840 |
| aatgtgaatg tcagttcccg ggtacagtca actgcatttt tctctggta ccaagcttcc | 900 |
| actgacaagg aagaggatta tattcggtat gcccatggtc tgatatctga ctacatccct | 960 |
| aaagaattaa gtatgactt atctaaatac ttaaagcttc cagaaccttc agcctcattg | 1020 |
| ccaaatcctc catcaaagaa aataaagttt tcagatgagc ctgtagaagc aaaagaagat | 1080 |
| tacactaagt ttaatactaa agatttgaag actgaaaaga aaaatagcaa aatgactgca | 1140 |
| gctcagaagg ctttggctaa agttgacaag agtggatgaa aaagtattga taccttttt | 1200 |
| ggggtaaaaaa ataaaaaaaaa aattggaaag gtttggaaact ttgaaaataa aatctagcaa | 1260 |
| aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaaag ggcggcc | 1307 |

<210> 50
 <211> 606
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (606)
 <223> n equals a,t,g, or c

| | |
|---|-----|
| <400> 50 aaaaatttggaa gacactgttt aacttctgtg catggactcc atcagcakct acaaagccay | 60 |
| tgggaggctg aggatcactt gagccccagaa gtttgaggct gtagtaagct tcaaaggcca | 120 |
| ctgcactcta gcttgggtga ggcaagaccc tttcaagcag taagctgcat gcttgcattgt | 180 |
| tgtggtcatt aaaaacccta gtttaggata acaggtctgc ctgcatttct tcaatcatga | 240 |
| attctgagtc ctttgcatttct taaaacttg ctccacacag ttagtcaag ccgactctcc | 300 |
| atacctttaa aaggtatgac aggaactgtc ttcatgtcct tacccaagca agtcatccat | 360 |
| ggataaaaaac gttaccagga gcagaaccat taagctggtc caggcaagtt ggactccacc | 420 |
| atttcaactt ccagcttct gtctaattgcc tggcttggat taggcttgc | 480 |
| cttttaggact tcagtagcta ttctcatctt cccttggggc cacaactgtc cataagggtc | 540 |
| tatccagagc cacactgcattt ctgcacccag caccatacct cacaggagtc gacttctact | 600 |
| cttagn | 606 |

<210> 51
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (22)
 <223> n equals a,t,g, or c

| | |
|--|-----|
| <400> 51 gggcnccca aaaattcccc cnrggtttt ttttttttt tttgtttca agaagaaaaga | 60 |
| agcaatgcag caaagtggtg cagaacacag gagctggagc cattcagacc caagtccaaac | 120 |
| tcttgaccc tcacttttcc tctacagtcc tgagcaatta cacctgccaa gcacccccc | 180 |
| aatggacaga ctggcaggcc ctactccaa caggcatcca gactgagcat caccaaggat | 240 |
| gggacaaaca gaagcaatgc aagagaaaat gcgaacacga acatgcacca ctacaccaca | 300 |
| acctatggaa acaatcaggc aaaacaagac taggagacat atgacaagaa aacaggccctg | 360 |

| | |
|---|-----|
| gacgcttcaa aaatgccaat gtcacgaaag aaaaaactg gcatgtct tctggatcaa | 420 |
| aggagactaa agagatataa caaccaaca caataaaact atcctagatt acatcctgga | 480 |
| ttttttaaaa gcaaaaaaga acaatttggt aacaactggg gaaagtgtta atgtggctac | 540 |
| attttaa | 547 |

<210> 52
 <211> 865
 <212> DNA
 <213> Homo sapiens

| | |
|--|-----|
| <400> 52 | |
| gctgaatata agaaaatatg tctaattggac accagttaat actttttaaa actactctt | 60 |
| aaaaaaaaaa tacgttcccc ttggttaact gatTTTTaa tccagggtgg acatTTTtc | 120 |
| aacctttatt aaaaagacaa ataaactatt ttgtagaaga tcagactcct acttaactgg | 180 |
| aagagaaatg tctattaaat gtctctcctc ttctctggg tcaagaccat gtaattttat | 240 |
| gcttcagaga tgaagatact gtttggttac aaagagttt gttttaaga catccaaaac | 300 |
| tctatgctag agcaaaaatc aaatagcaaa ggacacttagc cagaaaatac agtgtgtgtg | 360 |
| tgtgcacctg tgcctgcgt gaacaacttg acagtgtaac agataaggtt actgaagatg | 420 |
| gtggatattt gaattgtatt agcttaatgt ctacatatct ttggccaaaa ctctattgtc | 480 |
| atattagaaa catgttatct ttttcatgtt tattagtaat ttatTTTga ttctttgttt | 540 |
| tcttttcgt ccaactaaaa caactgtaat gtacttgata catttatata aagttctaaa | 600 |
| gtatTTtagac aaatccaaat actttgttt tagtttttc ctccTTTcca ttctgttaac | 660 |
| cacagtggaa cgcgcgatc ttttgatTTg gtcagtgcata cggaggaaga ccatgaaagc | 720 |
| tgaattgttc tgcctccccc agagtaaacc tcttctctc ttctggaaag atggcgtgat | 780 |
| gttttcaag gattctaata aatatcccgcc agtcatctcc tgaaaaaaaaaaaaaaa | 840 |
| aaaaaaaaaaaa aaaaaaaaaaggc cggcc | 865 |

<210> 53
 <211> 689
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (309)
 <223> n equals a,t,g, or c

| | |
|--|-----|
| <400> 53 | |
| tcgacccacg cgtccgattt tctgataaga cgattactaa gacaaacttc tatttttca | 60 |
| cttagtaagc atcatgacat catabataat caacctatct ttcttcttac ctttggcaac | 120 |
| tcggaaagtc agtgcataagc ttgtggta accctagtag tgacatccct tcttatgtct | 180 |
| tagtaatcgt cttatcgaa aatatcatat aaaataaaca caaagtaaac ttttactta | 240 |
| aaaagatctg tagatatttc actaactcta ttaatgcttt ggtaatagct attaatcta | 300 |
| taatcctgnc ctagatcaag ttttgaggcc tcagtgttat tcattccctg ggtaagagc | 360 |
| cactgaaatg ggataattat tggcacagtt actccctct tttaaatggt ttctgttctg | 420 |
| ccatTTactc ttatTTgaa attgccttct tttaaaagtt attcttaata ttgttaagcta | 480 |
| tttgaaaata ggtgagccat aaaaataaat attataatg tatttctaat tatcttatct | 540 |
| acaaaaaata ataataaata tccactttag aaaaatttggaa aaatcatgaa ggataaata | 600 |
| ctaaaatcga aattctctat aagatcaata ttcaGATTTG acctcaggca aacacagaaa | 660 |
| ttaaagttaa aaaaaaaaaa agggcggcc | 689 |

<210> 54
 <211> 515
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (4)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (7)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (20)
 <223> n equals a,t,g, or c

<400> 54
 tanntgnatc ccccccggcn tgccaggaat tcggcacgag ttacaactgg tggaccacac 60
 accaggcact aatcacctgg tgaggatttg gcatatccac caaaaaatgc atccgattta 120
 accaacatct ccaccagcgc tacggactcc tcccaattct gacatcttt gcagacaata 180
 ctatgctctc tacacactgt ttagaaatgg aaaggtgatc tgcactgtat cttgggtttg 240
 ttggctatgc ttcccttgc gacatatatt atacagtata tatatacata tatttwwww 300
 gttagagttc tagccattt atttctccgc agggcctt ctcagacatt actgcattgt 360
 gtatatggcg ttagctgtgt gttgatctc taaaagatga tagagttac tggtaattgt 420
 gtaatcagct cctgccttt tattttctt ggttatttac atgtcagaga catttataaaa 480
 aagtgaaagg ataaaaaaaaaaaaaaa aactcga 515

<210> 55
 <211> 747
 <212> DNA
 <213> Homo sapiens

<400> 55
 aaaaaggaaag aaaaagaaaaaa aaggaaacca gcctgtcat ggaatttctc tccttccctg 60
 cacagtaaag actttgggt tttcatggat aaaatcaatg tcagtaactga aactcctaact 120
 ctccccctccc gccccactct ccccccgttgc ccgagatggc caagttcagg cctgtgcaat 180
 gccgcttccc tctgagcctc cctctcaagg gccacgcagg cagctgcagg agggccagct 240
 gcaggatggg gctgccggc actgaatgt cgtcaaatg catcatctt gtggcgcttt 300
 tctcatgcga gcaagccac gtgctctct gtctgctgtc acatctgtgc ctggattgt 360
 taaaatattgt ttgtgatggg gaggtttaa tctgggtatg cagagggaaag cagggctgt 420
 ggggcacgtt taattggctc ccagcagcgt gggagtgct tctatgggtgt gtggggtttt 480
 ttgttgcctc cctctagaag ttttaccgtt ttacgtcct attaatgtcc tctgggtgtt 540
 aaattacagc agcacattac agtgcactgg gttccctct ggagtgaata caaacggagg 600
 gcatctactt gtattttag aagttttggg agaatttgt gatttgcgttgc twtgatcaat 660
 cctgttgcact ggtgtatgtc tgcgcaaacc tggtaat aaatcttttgg ttaaagtaaa 720
 aaaaaaaaaa aaaaaaaaaa aactcga 747

<210> 56
 <211> 676
 <212> DNA
 <213> Homo sapiens

<400> 56

| | | | | | | |
|-------------|------------|------------|-------------|-------------|--------------|-----|
| gaattcggca | cgaggacgag | gtaaaattat | tagaatggag | tatgtcatca | ggtctttcc | 60 |
| tagtccttt | ctgcttcctg | tgtgtctttg | tagtttctt | tgatttccat | tgttgggtgtg | 120 |
| atattttgtt | aaaaagcgc | tgactcacat | cccacccaaa | tccccagtc | ccttcagatc | 180 |
| cttcacaaat | ttggcattca | gcccactcct | tgccaattgc | ttcctttcct | cccaattccc | 240 |
| acatgtctcc | ttcctacgcc | atctgcttct | cctcccttcc | ttcgatttagt | gcttcgtct | 300 |
| gctttccaa | tttcttcat | tgttcaatgt | cttttgcctc | cttttcccccc | tcctctcccc | 360 |
| tagaggaaaat | taacatactt | aatacagctg | atgtcataaaa | gcccctttc | cctaagaagt | 420 |
| taaatttctg | tttctgcaaa | ataaatacat | agctctgttg | tgtgaaggtc | aaaggaaacc | 480 |
| tgagtagtaa | acctgaaata | gattttttg | gggttcatct | tacataaaagt | gtcaatgcat | 540 |
| attatgtatt | ctatttat | tccaaaataa | attttctatt | tgggatttaa | atatggtaag | 600 |
| tcaacacaac | tttattgtac | cagtcattgg | attgaataaa | tgacttaaaa | ataaaaaaaaaa | 660 |
| aaaaaaaaaa | actcga | | | | | 676 |

<210> 57

<211> 832

<212> DNA

<213> Homo sapiens

<400> 57

| | | | | | | |
|------------|-------------|------------|-------------|-------------|-------------|-----|
| aacccgctgg | cccaatggca | gcgttctaca | gtgttagcctc | cgccctcccga | ttgactggcc | 60 |
| tgcttggcaa | ggcaagtagc | ggcgccgctt | caagatgcgc | tgcctgacca | cgccatatgct | 120 |
| gctgcgggcc | ctggcccagg | ctgcacgtgc | aggacctct | ggtggccgga | gcctccacag | 180 |
| cagtcagtg | gcagccaccc | acaagtatgt | gaacatgcag | gatcccgaga | tggacatgaa | 240 |
| gtcagtgact | gaccgggcag | cccgccaccc | gctgtggact | gagctcttcc | gaggcctggg | 300 |
| catgaccctg | agctacctgt | tccggaaacc | ggccaccatc | aactaccctgt | tcgagaaggg | 360 |
| cccgctgagc | cctcgcttcc | gtggggagca | tgcgtgcgc | cggtacccat | cgggggagga | 420 |
| gcgttgcatt | gcctgcaagc | tctgcgaggc | catctgcccc | gcccaggcca | tcamcatcga | 480 |
| ggctgagcca | agagctgatg | gcagccgccc | gaccacccgc | tatgacatcg | acatgaccaa | 540 |
| gtgcacatc | tgcggcttct | gccaggaggc | ctgtcccgtg | gatgccatcg | tcgagggccc | 600 |
| caactttgag | ttctccacgg | agacccatga | ggagctgctg | tacaacaagg | agaagttgt | 660 |
| caacaacggg | gacaagtggg | aggccgagat | cgccgccaac | atccaggctg | actacttgta | 720 |
| tcggtgacgc | cccacccggcc | tgcagccct | gctgcccata | aaaaccactc | cgaccccaaa | 780 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaagggcgg | cc | 832 |

<210> 58

<211> 1003

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (422)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (700)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (758)

<223> n equals a,t,g, or c

<400> 58

| | | | | | | |
|-------------|--------------|--------------|--------------|-------------|--------------|------|
| ggtcgaccca | cgcggtccggaa | ggccccggcagc | ccggggcgccgc | cagggttagag | cgcccgccggac | 60 |
| ccggccacgc | agccccgggaa | ctccccgggccc | ctccccggagc | cccgcggggt | ccccggccgtg | 120 |
| catccggcgg | gctcaggggag | cgagttggag | cgccctccccc | ccgctgccc | ctccccccgag | 180 |
| catcgagaca | agatgtctgcc | cgggctcagg | cgctctgctgc | aagctcccgc | ctcgccctgc | 240 |
| ctccctgtga | tgctcttggc | cctgccccctg | gccccccca | gctgycccat | gctctgcacc | 300 |
| tgctactcat | ccccggccac | cgtgaagctg | ccaggccaaac | aacttctccct | ctgtgccgct | 360 |
| gtccctgcca | cccagcactc | agcgactctt | cctgcagaac | aacctcatcc | gcacgctgctg | 420 |
| gncaggcacc | tttgggtcca | acctgctcac | cctgtggctc | ttctccaaca | acctctccac | 480 |
| catctacccg | ggcactttcc | gccacttgca | agccctggag | gatctggacc | tcgggtgacaa | 540 |
| ccggtaacctg | cgctcgctgg | agccccgacac | cttccarggc | ctggagccgc | tgcaagtgcct | 600 |
| gcattttgtac | cgtgccagct | cagcarchstg | ccccggcaaca | tcttccgagg | cctgggtcagc | 660 |
| ctgcagtagc | tctacctcca | ggagaacagc | ctgctccacn | tacaggatga | cttgttcgcg | 720 |
| gacttggcca | acctgagcca | ccttcttccctc | cacggganag | cctgcggctg | ctcacagagc | 780 |
| acgtgtttcg | cgccctgggc | agcctggacc | ggctgctgct | gcacgggaac | cggtgcagg | 840 |
| gcgtgcaccgc | cgccggccttc | cgccgcctca | gcccgcctcac | catactctac | ctgttcaaca | 900 |
| acagcctggc | ctcgtgccc | ggcgaggcgs | tcggccgacct | gcccctcgctc | gagttrctgc | 960 |
| ggctcaacgc | taacccctgg | gcgtgcgact | gccgcgcgcg | gcc | | 1003 |

<210> 59

<211> 702

<212> DNA

<213> Homo sapiens

<400> 59

| | | | | | | |
|------------|-------------|-------------|--------------|-------------|-------------|-----|
| gaattcggca | cgagctgggt | catggatttt | gagaatcttt | tctcaaaacc | ccccaaacccg | 60 |
| gccctcggca | aaacggccac | ggactctgac | gaaagaatcg | atgatggaaat | agatacagaa | 120 |
| gttgaagaaa | cacaagaaga | aaaaattaaa | ctggagtgcg | agcaaattcc | aaaaaaattt | 180 |
| agacactctg | caatatcacc | aaaaagttcg | ctgcatacgaa | aatcaagaag | taaggactat | 240 |
| gatgtatata | gtgataatga | tatctgcagt | caggaatcag | aagataattt | tgccaaagag | 300 |
| cttcaacagt | acataacaagc | cagagaaatg | gcaaatgctg | ctcaacactga | agaatctaca | 360 |
| aagaaagaag | gataaaaga | taccccacag | gctgctaaac | aaaaaaataa | aaatcttaaa | 420 |
| gctggtcaca | agaatggcaa | acagaagaaa | atgaagcga | aatggcctgg | ccctggaaac | 480 |
| aaaggatcaa | atgtttgct | gaggaacagc | ggctcacagg | aagaggatgg | taaacctaaa | 540 |
| gagaagcagc | agcatttgag | tcaggcattc | atcaaccaac | atacagtgg | acgcaaggga | 600 |
| aaacaaattt | gtaaatattt | tcttggaaagg | aaatgttata | agggagacca | gtgtaaattt | 660 |
| gatcatgatg | cagagataga | aaaaaaaaaa | aaaaaaaaactc | ga | | 702 |

<210> 60

<211> 1095

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (202)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (556)

<223> n equals a,t,g, or c

<400> 60

| | | | | | | |
|--------------|-------------|------------|-------------|-------------|-------------|------|
| cccgccggcagg | agggtcaggg | ccagatggag | gggccaccaa | ggacatgggg | aagatgctgg | 60 |
| gggtgtacga | ggagaagggtt | ttgcttctta | cgaacgcccac | ggccgtnttc | acttctaaac | 120 |
| taaagggaaac | aaagcaatag | gtttggggga | cgcccagccc | ccaccccccgt | caccccgctc | 180 |
| ttcccaagtc | ctcgcccccc | gnccggcctc | ctagcctctc | cgcccacgctg | gctgctgctt | 240 |
| ctccctgggg | aggacccctg | ccctcgccca | ttgaacactg | caccctccac | aggagccgca | 300 |
| gaggccccgag | gcacccggacg | ctggagaccc | tgcgccccctg | cccagcacct | cctccgtggg | 360 |
| cagctccctg | ggtggggcct | gcgggggtcc | ctgcgcgcac | tggcgcgtgt | gtggcctaata | 420 |
| ccacctggtg | gcctcgccgg | gcggcatccg | agccccctgtt | tctcctccat | tcatgtttaa | 480 |
| tttgcatacac | aatttgttga | atctcaggta | aatgagggtct | ttgcatttaa | ttaggtttat | 540 |
| cttgcacaggc | gccgcntcgc | ccccgggccc | tttgcgtccac | akcaaaaaatg | catcaagtct | 600 |
| ccacgtgttt | cggcccgagg | cgtggcttgg | cattgacctt | catgaccta | catagcttta | 660 |
| gagaagccat | aacgttagac | tgcaatacta | acgaccgacg | cccctccggg | cagagaccac | 720 |
| cgcgccttc | tgcgccccag | cgacgcggcc | cgccggggacg | tcgctgtccg | tcctgctcgc | 780 |
| cctgtgcctt | ctcaactgact | tctccgggt | cgtgtctttt | aaaaaactct | gttttacacac | 840 |
| cttacaaagc | cagctctgag | cagacagggc | gtcctctcgt | agaacctgctg | caccccgttc | 900 |
| ccagcgcatg | gcgcgggggg | ccgcgagctt | agcttagacc | gtgggtgtctt | ctgtccgtct | 960 |
| gtccctgcgcc | tgcgccctct | cctgcatgtc | ggggccccctg | cgtgtgttct | ctccggatgg | 1020 |
| aatcacagcc | aataaacacc | agtgatttca | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 1080 |
| aaaaaaaaaa | aaaaaa | | | | | 1095 |

<210> 61

<211> 867

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (831)

<223> n equals a,t,g, or c

<400> 61

| | | | | | |
|-------------|------------|-------------|------------|-------------|-----|
| tcgagttttt | tttttaagta | gagatggggt | ttcacctgt | tagccaggat | 60 |
| ggtctcgaaac | tcctgacctc | gtgatccgccc | cgcctcgccc | tcccaaagtgc | 120 |
| aggcatgagc | cactgcgccc | agccgggttt | tttaaacatt | ccccaggact | 180 |
| cccatactca | cctgacattt | gggaactccc | ccccacggcc | ataactgatc | 240 |
| agaccaagag | caagaatggg | ggattcacat | ctaaggtctg | gtgatggctg | 300 |
| aagaatcagc | gaacaaaagc | ctctaggtct | ttcttaccac | aaacacccct | 360 |
| gctttgaaag | gggcagaagt | atagtggcg | agctgcccac | ctgctacagt | 420 |
| ggagaaatac | tcacactttg | aggtgctcgc | cctcttcatc | agccagctct | 480 |
| aatgacccca | cggagactta | cacaagtyca | aacaggccca | aatgcattca | 540 |
| gaggccaaag | gactccggag | gagagaggcc | caataaggct | ggtgctat | 600 |
| gagagagcag | aggtgggcag | gcccctttga | ttaatgtatc | attcttgaat | 660 |
| aaatccgggt | atgcccgggt | agaatgagca | ggactaacac | ctgggtgtca | 720 |
| ccaggcccga | ctggccagag | acagatccgc | aagaggctct | gcagccagct | 780 |
| gccactcggga | tttgaacccc | ggctctcaa | ggtcagctgt | gtagccttga | 840 |
| tgctatgacc | aatctcgatc | cgaattc | | | 867 |

<210> 62

<211> 1134

<212> DNA

<213> Homo sapiens

<400> 62

| | | | | | | |
|-------------|-------------|--------------|-------------|-------------|--------------|------|
| tctgaaggtc | tcagcttctt | agatgttctt | cactcttctt | gaccattttc | actgaaccct | 60 |
| atttgattta | ctgaaagcat | atttactaat | tgtttgcact | taaaggtgct | tttattccctag | 120 |
| aataaacaat | gcttttaaaa | caattcacta | ttctaaattt | atactggctt | aagatgttgt | 180 |
| tccagtgtca | ggtattgtta | tcgatttttt | cttccctaga | acctgtccctt | tccagttggct | 240 |
| ccagtagact | tgtatTTT | aatctttcaa | atattatgtt | gcttggtaaa | cttcccatca | 300 |
| tgatcttggtt | cagtttctca | actcatttgc | aaaagagatg | actagcatgg | gaggctggat | 360 |
| tccagtatct | gttttagtgc | cttatttagtgc | cctcttagct | tagttcttt | tgatgattca | 420 |
| gcgtccagat | aatccaaggg | agtgactgtt | atcatagggg | tttcttagtag | aatgcaatca | 480 |
| tgagccctt | aggaagttt | ggtcaataat | aaaccacaca | tagggtggtt | gtccccctaag | 540 |
| attataatga | agcttagaaaa | ttcccttctcc | ctagttagtt | gtagccatcc | cacactatag | 600 |
| tagtgcaacg | cgttactcac | tgtgtttgtt | atgatgtctgg | tgtcaacaaa | cccgcaactac | 660 |
| cagttgtata | aaagtatagc | atgtacatac | atttataatgt | agtacatata | ttgataataa | 720 |
| atggctgtgt | tactggctt | tgtattttact | atgttttttta | attgttattt | tacagagtac | 780 |
| atcttctact | tattaaaaga | agtttaactgt | aaaacatctt | caggcagggtc | cttcaggggg | 840 |
| tattccagaa | aaaggcattt | ttatcgtagg | tgatgacagc | cctatgcacg | tttttccacca | 900 |
| gtgggatgaa | atatggagat | ggaagacagt | gatattgtat | atccctgatct | ttgcaggccct | 960 |
| aggctaattgt | gtgtttgtgt | cttataagaa | aaaggattaa | aaaagaaaaga | atttttaaat | 1020 |
| ggaaaaaaagc | ttatagaata | tgaatataag | gaaagaaaat | atttttgtac | aactatacaa | 1080 |
| tgtgttggtt | ttgtaaacta | aatgttatta | caaaaaaaaaa | aaaaaaaaac | tcga | 1134 |

<210> 63
<211> 1448
<212> DNA
<213> Homo

<400> 63

<210> 64
<211> 756
<212> DNA
<213> *Homo sapiens*

<220>
 <221> SITE
 <222> (354)
 <223> n equals a,t,g, or c

<400> 64

| | | | |
|------------------------|------------------------|-------------------------|-----|
| tcgaccacg cgtccgagca | tattaggatt atatgtagat | ttgtatgtat tttgcattat | 60 |
| gtacttcagt ctccatgttt | tattattctc accttccgtt | ttattcttgg cgaggaaaaaa | 120 |
| atgcactaga aataatacat | taaactgact cttagtctta | atgtacgctt gctgtcttaa | 180 |
| atagggtgat tgagtccaaac | agactcaatc atacatgtca | tacatgttta tgattaagag | 240 |
| atattcttt tggatgtctag | ttgattttgc cgagaaaaaa | tgaagaagaa ttcaagaaga | 300 |
| gatgagggtta ggtaagctct | cagagcattt ctgtctgccc | atttgggtct atgnctttag | 360 |
| tgggctgcta atgtgactaa | tccagagtgt tggatgttcca | catctgttggat ttcaccatcg | 420 |
| gaaaagggtgg gctaccattt | gtccttatat ggctttatata | gaaaaataga cattctatcg | 480 |
| tttgcgtcc cagtggccag | agtcctgggtg aacaacagag | ctcatgggaa aycagcctct | 540 |
| ctcagggcac cccgctatga | ggatattgaa atatgttcaa | tcatttctca tctcccttgg | 600 |
| aatgttaattc cctgccttat | acaaaatagg atattccaaat | gcgctatttgc aatctaggga | 660 |
| ttgaggattt gtagttgagt | tttgggttaa aggcttggct | cattgccatg gaagaataaa | 720 |
| agttatttat taaaaaaaaaa | aaaaaaaaagg gcggcc | | 756 |

<210> 65
 <211> 496
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (472)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (479)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (493)
 <223> n equals a,t,g, or c

<400> 65

| | | | |
|-----------------------|------------------------|-----------------------|-----|
| ccgtgatgtg gcgcctgcac | antccttcc ctttcggatt | cccgacgctg tgggtgctgt | 60 |
| aaggggctcc ccctgcgcca | cacggccgtc gccatggta | agctgagcaa agaggccaag | 120 |
| cagagactac agcagcttt | caaggggagc cagtttgc | ttcgctgggg ctttatccct | 180 |
| cttgcgtatt acctggatt | taagaggggt gcagatccc | gaatgcctga accaactgtt | 240 |
| ttgaggctac ttggggata | aaggattatt tggatctctg | gatttggagg caatcagcgg | 300 |
| acagcatgga agatgtgtgc | tctggctcgg ataaagatgt | ggacatcatt cagtcactag | 360 |
| ttggatggca caaggcttt | cacagacgca tctgttagcag | agtggawctt gtactaactt | 420 |
| atgatagaat gtatcagaat | aaatgtttt aacagtgtwa | aaaaaaaaaa rnaggrggng | 480 |
| agtgggtggg gtngag | | | 496 |

<210> 66
 <211> 557
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (16)
 <223> n equals a,t,g, or c

<400> 66

| | | | | | | |
|--------------|------------|------------|------------|-------------|------------|-----|
| gcaggtaccc | ggtccnggaa | ttcccgggtc | gaccacgct | tccggtattt | ttttattggg | 60 |
| gtggggaaag | ggcaaaaag | aatgatctta | gtgtcttac | ctttctcata | ttaactcacc | 120 |
| tctttattct | gtggtctttt | ctgaatagaa | atgtatgccc | taggaagaaa | tcatgctggg | 180 |
| ttttgctttt | agagataaaa | ggtggtggat | ttatttgcc | tgcaagaaaag | attctcaggg | 240 |
| tgtcagagca | gcatattgtc | aaatcctgct | tctgtttat | gtttcagtgt | attcactttc | 300 |
| attttcttac | ttactagacc | atttctgcag | tttgcacaaa | cctctactgt | ttgggacagt | 360 |
| aagccaaata | cctcatttt | aaaaagaagt | ttcattggca | tcagtgttaa | taaagtacat | 420 |
| ttttaactga | gtcttaatct | ctatggaaag | aaaaagtaga | gacaaaagta | atgtcaatgt | 480 |
| aatccccagg | atcatgaaat | gtatacaaaa | taaataaagt | aggagagtt | aaaaaaaaaa | 540 |
| aaaaaaaaaaag | ggcggcc | | | | | 557 |

<210> 67
 <211> 674
 <212> DNA
 <213> Homo sapiens

<400> 67

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| ggtcgaccca | cgcgtccgat | aatgtgttagc | tactgtatgc | cttatttaat | tattttttg | 60 |
| agtgtcattc | acaatcacaa | aacgataaccc | ttactgaaaag | tgttagtgg | taaacttaat | 120 |
| tgcataatta | cggacctgtg | tatccacaga | gatgatgttt | tccccactac | atgttaagat | 180 |
| gtacgtat | aatgacaatg | ctgtttgtt | tatgagaact | tgagacagaa | gatttagtag | 240 |
| gattatccag | tgacagtcag | tacagggtgc | gattaagctg | tccttctggc | tctggcctg | 300 |
| gtatatgttt | gtctctggcc | atgcagttac | agaatagggc | agggtggcatg | tttataatag | 360 |
| cctttgattt | cacagaagtt | ggtgagcttt | cctaagtgg | gaattttaga | gctagatagg | 420 |
| attgttgtgg | gagagggggc | agggaatgg | gagttgattc | ttcactcttc | tgttgtgcag | 480 |
| ttgaattttac | atgtagctgg | aactgat | ccaaggatt | atgatggcaa | tgagcttaga | 540 |
| agattggttt | ggttttagca | tttcagaatt | ggatccctt | ccggaaacct | tgctaagagg | 600 |
| gagtgactt | gtatggta | cagagacaa | aaaaaaaaaa | aaaaaaaaagg | sggccccccc | 660 |
| caagggggcc | ccaa | | | | | 674 |

<210> 68
 <211> 794
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (345)
 <223> n equals a,t,g, or c

<400> 68

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tcgaccacg | cgtccgagat | tttcagcaga | aagatattgg | tgtgaaaccg | gagttcagct | 60 |
| ttaacatacc | tcgtgccaaa | agagagctgg | ctcagctgaa | caaatgcacc | tccccacagc | 120 |
| agaagcttgt | ctgcttgcga | aaagtggtgc | agctcattac | acagtctcca | agccagagag | 180 |

| | | | | | | |
|-------------|--------------|-------------|-------------|-------------|--------------|-----|
| tgaacctgga | gaccatgtgt | gctgatgatc | tgctatcagt | cctgttatac | ttgtcttgc | 240 |
| aaacggagat | ccctaattgg | atggcaaatt | ttagttacat | caa&aaacttc | aggtttagca | 300 |
| gcttggcaaa | ggatgaactg | gggatactgc | ctgacctcat | tcgangctgc | ccattgaata | 360 |
| ttcggcaagg | aaggctctct | gctaaacccc | ctgagttctga | gggattttgga | gacaggctgt | 420 |
| tccttaagca | gagaatgagc | ttactctctc | agatgacttc | gtctcccacc | gactgcctgt | 480 |
| ttaaggctga | tgctctatta | gaataaaaaga | ggatccccta | gtccatagca | agtataaaaaaa | 540 |
| taataataaa | taaaaaaaaata | acaagatgaa | gctggggcatg | gtggtgc | ctttagtcc | 600 |
| cagctatatg | ggaggctgag | gtgggaggat | cacttgagcc | cgagaggttg | aggctgcag | 660 |
| gagctctgtat | tgtgccactc | tactccagcc | tggcaacat | agcaagac | ct tgttctaaa | 720 |
| aaaataaataa | aataaattct | gttatttgc | accctgttagg | gattcactga | aaaaaaaaaaa | 780 |
| aaaaaaagggc | ggcc | | | | | 794 |

<210> 69

<211> 1915

<212> DNA

<213> Homo sapiens

<400> 69

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| gaattcggca | cgagctaaaa | tgttcgacag | ctcaaagctg | ggaccaaatt | agtgtcctca | 60 |
| ctagcagaat | gtggggctca | aggagttaca | ggactgctac | aagcaggagt | gatcagtgg | 120 |
| ttatggaaac | ttctgtttgc | tgcacgt | tcatcttctc | ttaagttaaa | tgcttttaaa | 180 |
| gctttggaca | gtgtcattag | tatgacagaa | ggaatggaaag | cttttttaa | gaggtaggca | 240 |
| gaatgaaaaa | agtggttatc | aaaagctct | ggaactcata | cttttagatc | agactgtga | 300 |
| ggttgttact | gctgggttcag | ctattctcca | aaaatgccc | ttctatgaaag | tcttgcaga | 360 |
| gattaaaaga | cttgggtgacc | attagcaga | gaagacttca | wcttcccta | accacagtga | 420 |
| acctgatcac | gacacagatg | ctggacttga | gagaacaaac | ccagaatatg | aaaatgagg | 480 |
| ggaagctct | atgatatgg | atctttgga | atcctcaat | ataagtgaag | gggaaataga | 540 |
| aaggcttatt | aacctccat | aagaagttt | tcatttaatg | aaaactgccc | ctcatacaat | 600 |
| gatccaacaa | cctgttaagt | ctttccaaac | gatggcacga | attactggac | ctccagagag | 660 |
| ggatgatcca | taccctgttc | tctttagata | tcttcacagt | catcacttct | tggagttgg | 720 |
| taccttgctt | ctgtcaattc | cagtaacaag | tgctcaccct | ggtgtgc | aagccacaaa | 780 |
| agatgtttg | aagtttcttg | cacagtaca | gaagggtctt | ctttttta | tgtcggaaa | 840 |
| tgaagcaaca | attatttgat | ccgagctctg | tgtcactttt | atgatcaaga | tgaggagaa | 900 |
| ggtctccaaat | ctgatgggt | tattgatgat | gcatttgcct | tgtggctaca | ggactcaaca | 960 |
| cagacattgc | aatgtattac | agaactgttc | agcatttcc | agcggtgtac | agccagtga | 1020 |
| gaaacagacc | attcagatct | cttgggaaacc | ctgcacaatc | tttatttgat | tacttyaat | 1080 |
| cctgtggaa | gatcagctgt | tggccatgtt | tttagtctgg | aaaaaaatct | ccaaagtctt | 1140 |
| attactctaa | tggagttacta | ttccctcaaga | tggaaatcc | ccaccaaaac | ggccactcaa | 1200 |
| agtatcacag | aagatttctt | ccctgtgtgg | gtttcaggc | aatagaggag | gacgggggtgc | 1260 |
| tttccacagt | cagaataggt | ttttcacacc | acctgcttca | aaagggaaact | acagtcgttg | 1320 |
| ggaaggaaca | agaggctcca | gttggagttgc | tcagaatact | cctcgaggaa | attacaatga | 1380 |
| aagtcgttgg | ggccagagca | attttaacag | agggcccttt | ccaccattac | gacccttag | 1440 |
| ttctacaggt | taccggccaa | gtcctcgaaa | ccgtgtttct | agaggtcg | ggggacttgg | 1500 |
| accttcctgg | gctagtgc | atagcggcag | tggaggctca | agagggaaagt | tttttagtgg | 1560 |
| aggcagtgtt | agaggtcg | atgtacgctc | cttacacga | aaaaatct | tttggaaaca | 1620 |
| tcttaactgt | atatgaacat | ttcacagga | caataaaaat | aagacat | aggaccaatt | 1680 |
| tagacttagc | agttatctgg | agacatctga | gagaatattt | ttatctgaag | aaagcagaat | 1740 |
| ttgtttgata | cctaacaaga | tttcaataaa | aatccaaact | ttgtatgtac | ttttgtat | 1800 |
| atttccctt | tttgtatga | ctatttattt | agaaaatttc | taggtaaaaa | actaaatgtat | 1860 |
| gttttgtatt | tttctgcct | atagcacaga | tattctcaaa | ctttctcagc | tcat | 1915 |

<210> 70

<211> 733

<212> DNA

<213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> n equals a,t,g, or c

<400> 70

| | | | | | | |
|------------|------------|-------------|-------------|-------------|-------------|-----|
| gcnggtggcg | gccrcrtcg | agaactagt | gatcccckg | ggctgcagga | attcggcacg | 60 |
| agggcggatt | catcatgaag | caaacgcggc | tgaacccccc | agtggcttc | attcttctcc | 120 |
| aaccccttc | aagacccagg | gatgggctca | gcaattctgt | ttaataatt | ttgcattctg | 180 |
| tcccctaaat | cataaagaga | gcccccaatc | tgtaaagctt | ctgatcccac | acaacctctc | 240 |
| agggcttcag | ggtcctgagg | aggatggca | ggtcactgt | ggcctgtgg | ggagccagcg | 300 |
| ggcacccagg | gcttcctggt | ggccaggtc | cctggtcata | gactgagcca | gammagcatc | 360 |
| agcytccat | ctccaggccc | ctgcggtgag | ggccccaaatg | cccctgataa | ggctctgctc | 420 |
| ctaaagggct | gttggccttg | aacaagctgc | tctcctgcct | cagttccam | ttcaggatgg | 480 |
| agacatgaat | gagagaagtg | tccctgaaac | tcctgatggc | tttccatttc | ctggtttctt | 540 |
| gtctttcctg | aggctgaatt | cttcgcctgc | tttctctgag | atccctcact | ttcctgcca | 600 |
| gaaatttctt | ctttagtctg | ttcagagt | gatgcaaaatc | aaaataaaaaa | agtgcaagtt | 660 |
| caaagtgc | caaaaacaaa | caaacaaaact | ttggctaagg | caaaacccaa | ccaaaaaaaaa | 720 |
| aaaaaaaaaa | ctc | | | | | 733 |

<210> 71

<211> 1266

<212> DNA

<213> Homo sapiens

<400> 71

| | | | | | | |
|--------------|-------------|-------------|-------------|-------------|--------------|------|
| cccatgtcgg | ccctgaggcg | ctcgggtac | ggccccagtg | acggtccgtc | ctacggccgc | 60 |
| tactacgggc | ctgggggtgg | agatgtgccg | gtacacccac | ctccaccctt | atatccttct | 120 |
| cgcctgaac | ctccccagcc | tcccatttcc | tgggggtgc | gcggggggcg | ccggcgagg | 180 |
| accacctggc | tggagaagg | cggaggaggc | gatggctact | atccctcggg | aggcgccctgg | 240 |
| ccagagcctg | gtcgagccgg | aggaagccac | cagagttga | attcttatac | aaatggagcg | 300 |
| tatggtccaa | cataaaaaaa | aggccctggg | gcaaataactg | cttcataact | caggggtta | 360 |
| wtatgcacct | gttataactc | agaccagtt | ctycacagaa | ttccaagttac | ttaccgttca | 420 |
| tctggcaaca | gccaactcc | agtctctcg | tggatctatc | cccagcagga | ctgtcagact | 480 |
| gaagcamccc | ctcttagggg | caaggttcca | ggataatccgc | ttccamagaa | mccttggaaatg | 540 |
| amcctgcccc | attatcctta | tggagatgtt | aatcgttagt | ttccacaatc | aggaccgact | 600 |
| gtacgaccac | aagaagatgc | gtgggcttct | cctggtgctt | atggaatggg | tggccgttat | 660 |
| ccctggcctt | catcagcgcc | ctcagcacca | ccggcaatc | tctacatgac | tgaagtactt | 720 |
| caccatggcc | tagcagtggc | tctccccagt | caccccttc | accccccagtc | cagcagccca | 780 |
| aggattcttc | ataccctat | agccaatcag | atcaaagcat | gaaccggcac | aactttctt | 840 |
| gcagtgtcca | tcaagtacgaa | tcctcgggga | cagtgaacaa | tatgtattca | gatcttttgg | 900 |
| attcccaagt | ccagtatagt | gctgagcctc | agctgtatgg | taatgccacc | agtgaccatc | 960 |
| ccaaacaaatca | agatcaaagt | agcagtcttc | ctgaagaatg | tgtacctca | gatgaaagta | 1020 |
| ctcctccgag | tataaaaaa | atcatacatg | tgctggagaa | ggtccagttat | cttgaacaag | 1080 |
| aagttagaaga | attttagga | aaaaagacag | acaaagcata | ctggcttctg | gaagaaatgc | 1140 |
| taaccaagga | acttttggaa | ctggatttcag | ttgaaactgg | ggccaggac | tctgtacggc | 1200 |
| aggccagaaa | agaggctgtt | tgtaagattc | aggccataact | ggaaaaaaaaa | aaaaaaaaaaa | 1260 |
| actcga | | | | | | 1266 |

<210> 72

<211> 485

<212> DNA

<213> Homo sapiens

<400> 72

| | | | | | |
|------------|------------|------------|------------|------------|------------|
| gaattcggca | cgagtaccct | gttctaatac | agttcagtgt | gtcttataga | aaatcattta |
|------------|------------|------------|------------|------------|------------|

60

| | | | | | | |
|-------------|-------------|-------------|-------------|--------------|-------------|-----|
| tcttttgcct | ccctgaaaatg | attttaactt | tttgtgtttt | tctcctttc | tcatattcata | 120 |
| atgcaattaa | atctaccctt | tttctcaaatt | tttaaaaaca | catgaataaa | atatcttttta | 180 |
| cttaaggcata | aacacaaaatg | gagttggcgta | ggctgggtcat | ggtggctgac | acctataatc | 240 |
| ccaaacactgt | gggaggccga | ggcagggtgga | tcacttgagc | tcacaagttt | cagagcccg | 300 |
| tgagcaacat | ggcaaaaaccc | cgtctctaca | aaagaataaa | aaacttagcc | aggcatggta | 360 |
| gctactcagg | gaggatggct | tgagcctggg | aggcagtgg | tgcaatgagc | caagatcgca | 420 |
| ccactgcact | ccagcctggg | stataaagcc | agaacttgc | tcaaaaaaaaaa | aaaaaaaaaa | 480 |
| ctcga | | | | | | 485 |

<210> 73
 <211> 639
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|----------|------------|-------------|------------|------------|------------|-------------|-----|
| <400> 73 | gaattcgcca | cgagtattaa | gtcaaattgc | tgtattctac | gtgttagagt | gagttcaaaa | 60 |
| | gatccattgt | attactgaat | aggcaaaaat | tttaatttca | gaggatgaaa | ctgatataatt | 120 |
| | actgccacct | tgtggatatt | ctgttattac | aggctattat | aaaargcaat | gcgggtatgt | 180 |
| | aatctgttct | aacaagaagc | atttcctttt | tttgcgttt | ttattattgt | tattattaca | 240 |
| | ttttaagttc | tgagatacat | gtacagaacg | tggaggtttg | ttacataggt | atacacatgc | 300 |
| | catgggggtt | tactgcaccc | atcaaccat | catctacatt | aggattttct | cctaattgcta | 360 |
| | tccctcccc | agcctccac | cccttgacag | gcccccgtat | gtgatgttcc | cctccctgtg | 420 |
| | tccatgtgtt | ctcattgttc | aactcaaaag | aaaaacagaa | gcattttctg | cttcccaat | 480 |
| | ttcttaata | caatgcaact | ttatgtttaa | tttaactaac | ttaattttt | gagacaagg | 540 |
| | ctagctctgt | tgcccaggct | ggagtggcgt | ggcgtgaata | tggtcagtg | aaacctccac | 600 |
| | ctccctggct | caagtgtatcc | tccttcctca | gcctctcga | | | 639 |

<210> 74
 <211> 532
 <212> DNA
 <213> Homo sapiens

| | | | | | | | |
|----------|-------------|------------|------------|-------------|------------|------------|-----|
| <400> 74 | atggctgctt | tcaacccgaa | cgcgtccatc | cttcaagatc | aagaccatt | ccatagttca | 60 |
| | acaagtagtt | ggtgatgata | gagtgccctg | actggggccag | aacagctct | ttagccaaac | 120 |
| | agcgcaggaa | agtctttaaa | catatgtca | gctcctttct | tcattttcac | tttaatttca | 180 |
| | tgtatgcctct | gtgtccctct | gacgacatct | ctcctgggtt | ctgggactct | gctgggtttc | 240 |
| | catgcctact | gagaaggctt | cctggccatc | atcaggcagg | aaaacctcaa | agccctccgt | 300 |
| | cctcaacgtg | ggatccctgg | gccagcagca | tcagcctcac | caggaaacct | gttcttctgc | 360 |
| | tcattcttgg | gccccacccc | aggcctattc | aaagaaagac | tccagggca | gcgttggca | 420 |
| | gcctgtgttt | ccaccagatc | tgtgtaaaaa | ctcaaataaa | ccagcccagg | tgatgtgacg | 480 |
| | caggaagtgc | aaggctgaga | gccagtgtct | aaggcaacct | cgtgccaaat | tc | 532 |

<210> 75
 <211> 514
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (507)
 <223> n equals a,t,g, or c

<400> 75
 aggagacgt agaacttagtg gatccccmgg gctgcaggaa ttcggcacga gccccagcta

60

| | |
|---|-----|
| ggaaagaaaaga atggcactct tgggcttggc ccagaattag agttattaga gcaagagaga | 120 |
| gcttaggaag catgagggca actatagtga ggcttattg ccaggaggga gggttttgggt | 180 |
| tgctggcgct tggtaataaa gggcaagag cagtcctt ggactattcc tgggaggact | 240 |
| ctgatgcagg gcgtctgttgc tccccctggg tcaccteetc cctgctcgct gacatctggg | 300 |
| gctttgaccc ttctttttt aatctacttt tgctaagatg catttaataa aaaaaaaagag | 360 |
| agagagagag aggtgtgagg gacaaaatgc aaacctatgg cccttgccctc ataggcttct | 420 |
| gggatgtcat caccccaagt ttgttggttt tgtttccaaac tgtaataaaa gcattgaaac | 480 |
| agtaaaaaaaaaaaaaaaa acaaaaanaaaa aaaa | 514 |

<210> 76
<211> 644
<212> DNA
<213> *Homo sapiens*

```

<400> 76
tcgagttttt tttttttttt tatttatttat tttactttaa gttctgggat acatgtgctg 60
aatgtgcagg ttgttacat aggtatacat gtgccatggt ggtttgcgtc acctatcaac 120
ccgtcatcta ggtttatgc cccgcatgca ttaggtatgt gtcctaattgc tctcccgccc 180
ctttcccaact aacaccctcc tgagtttatg aatccttgca gatatgtttt atgtatatga 240
tcatagtatg tatgttagaca cacacacaca cacacacgtt ccctctctt acacaaatgg 300
taacatacta aagatactct tctgtacctt cacagtacaa gtaccatatt ccccaacttag 360
cacttggcaa agggccaaagc cagttaaaggc caggggtgagc acttggcctc caagctctat 420
gtccagtgtc cgctccccac agggccctta actcacccac agaagcggac tcagcccccag 480
gctacgtcta acaaccacac acaaaggcag caagaaaatgg cccatgtcgc cttctggca 540
ggacattcca tcctgcagaa ggaacctta ggctcactcc gccacctggg aagccaggtc 600
gccagggat ggggcaggcg gttggactca ctctgtgccga attc 644

```

<210> 77
<211> 1199
<212> DNA
<213> *Homo sapiens*

<220>
<221> SITE
<222> (469)
<223> n equals a t.a.g. or s

<220>
<221> SITE
<222> (582)
<223> n equals a t g or c

<220>
<221> SITE
<222> (630)
<223> n equals a t c or c

| | |
|---|------|
| gttacaggct gtaatcctaa attagggttt caatcttgc tgcacactaa | 540 |
| aggtcgtcca caaggactta aatacagaag tatggagtcc tnctcaggcc | 600 |
| atatttagtt tgctttaaca aggcatagca gtgataagtn ccagagagag | 660 |
| ctgtcctcag acaagaagag gatgaggagg gatgagccat ttgtgcctat | 720 |
| tttggcaaag tcatgattac ttagtcatgt wacatgtAAC ttagcatgac | 780 |
| ccatgggtac agaaaactagg ttaattttt ttatccaaca gtgamgttt ccatacttca | 840 |
| ctcaagttact tagtaattgc ttagctttt cttcattgca gcggcttcat agatcatggc | 900 |
| tgtgttcat cgcttgcgc gtgcctggga aatcaatagc taaaaaygtt ttgtgaaccc | 960 |
| tttagtagttg tacctgggt aggtttggaa tggccagga gaattaatga acamtcaggt | 1020 |
| gtatgttcatgtt acggataata agcaaattgc tgtttggaa tggatttca tcaatctgt | 1080 |
| ttataaataa gtgcataattt gccatttaaa gtaattttt tatctgtgac ttggcttca | 1140 |
| tgggattagc tataatgaca cgtctgggg tctcctcaca attagaatga aatcctcga | 1199 |

<210> 78
 <211> 660
 <212> DNA
 <213> Homo sapiens

| | |
|---|-----|
| <400> 78 | |
| gaattcggca cgagcagagg cccggtacct ttaagctcta cctcgccaaat | 60 |
| gcccctctcgca | |
| ctgtaatcc gtgcacacag cctgctgtt gccatgcaga atgatggcct | 120 |
| caagttcatg | |
| gaaatgggtgc tccatgtcct tcaggcaagt ataggtgttc | 180 |
| ttgtgcctat ggtggatgtg | |
| ctcgagcatt ttcttgcct gtcattggc aatgcagggg | 240 |
| ctcccttgcc actgctggat | |
| gtgctggggg aggatgttat tgatgtggct gaaaagaagag | 300 |
| agagcaagaa atgaaatggg | |
| tagatggggg catcagagga atgagaaaga ttagctacca aatggtgact | 360 |
| ctatagggta | |
| ctgagtgtg gatgagtgcg cgttggtaa tgggtgggtt aacagtggac | 420 |
| gggtgggtgg | |
| atgggtggag gggcaggtgg gtgagtggct ataagggtgg atgacaggt | 480 |
| gggtgagtgg | |
| ctatgagggt gaatgagcag gtggatgagt ggctataagg gtggatgagc | 540 |
| atctctgggtt | |
| atgtaatgt gatgggcagt tcaagtggatg ggtgactatg acggtgatg | 600 |
| ggtggtggc | |
| tgagtggaaat tacagatggc atagatcaca ctttactttt ctttgc | 660 |
| ttaacctcga | |

<210> 79
 <211> 524
 <212> DNA
 <213> Homo sapiens

| | |
|--|-----|
| <400> 79 | |
| tcgagccccc gctggcgccc ctggctgctg ggctttgtc ttcttaggttc | 60 |
| ctctttctcc | |
| caagaagggc taagtggatc ctgtgaaggg agggatgcag tggggggaaag gagctggccc | 120 |
| cagctgggtt tacattctca gctggacag cagacccctca ctgtgtatgt | 180 |
| gtcagccag | |
| cagataacctg tgcacaggca cagacccacc aactcgtgg gacacttcaa | 240 |
| caccgcacaa | |
| agccattttt ccactagacc catgccccca aattagcaga actgctcg | 300 |
| ccgaaattcct | |
| gcagccccgg ggatccacta gttctagagc ggccgccacc gcggtggagc | 360 |
| tccagctttt | |
| gttccctta gtgagggtt atttcgagct tggcgtaatc atggtcatag | 420 |
| ctgtttctcg | |
| tgtgaaattt gttatccgctc acaattccac acaacatacg agccgaaagc | 480 |
| ataaaagtgtaa | |
| aaggcctgggg tgccataatga gtgagctaac tcacattaat tgcg | 524 |

<210> 80
 <211> 434
 <212> DNA
 <213> Homo sapiens

| | |
|---|-----|
| <400> 80 | |
| gaattcggca cgagcggcac gagctcggtc cgaattcggc acgagatttc | 60 |
| atgggcagtg | |
| tctggaaactg ctttttagca ttacttgaaa aacatttaat tactttgtac | 120 |
| aaattaataa | |

| | |
|--|-----|
| taacagtgc actagattt ctcagtgcc a | 180 |
| ttaactgaat tggccccc gttggatag aacagctgc cctccttcag c | 240 |
| agccgtccta gctctgcggc ctggccactt tgtttcccc aatccctgg | 300 |
| agggctctca gctcccctgg ctctcacgtc ctcacctgag ctgaggagag | 360 |
| ctctctccag ctccamamtg gtctgtatcc aggctatty | 420 |
| aaaaaaaact tcga | 434 |

<210> 81
 <211> 735
 <212> DNA
 <213> Homo sapiens

| | |
|---|-----|
| <400> 81 | |
| gaattcggca cgagcttctt ataacctaata ctctgaagt atatcatcac ttctgctata | 60 |
| tcctgttcat tagatgttag tcagtaagtc cagcccaactc tcaaggaaag ggggtgtgaat | 120 |
| atcaggaagt gggaaatcac tggggttatc ttagaggctg ctaccataac ggaggaat | 180 |
| tggcatctt atttcatta acctctaact ggcttagtg tcacattcta caataatgt | 240 |
| aggcaacaag tcactgtggt atgaacagca cctgtggtt tgtaaccagt ataaatcaga | 300 |
| tatttcttat tattttatgg tkgttgtacc tgccctact taccactact ttgaaatat | 360 |
| gggagttatt agmctactg cactagatt tgttatataa tatataaaaaa gaaattcaca | 420 |
| ttactataca acaactaaa aaatgcttg acaaaactat ttatggta acttttgta | 480 |
| ttttgtttta tgagatgtaa aatattattc tgagaggtga tccacaggtt ttaccaaact | 540 |
| gttaaggcgt ttgtgacaca aaaatattaa gaatccctaa gcaagtgata ttcaaagtgt | 600 |
| ggttctggga acagcagcat caacatcacc tggaaactag tctgaaacgc aaattatcag | 660 |
| gaggttcctt ccctgaccta ctgagtcaga aactctggcg gagggaccca gcaatctgtt | 720 |
| caaatacacc ctgc | 735 |

<210> 82
 <211> 722
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (697)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (717)
 <223> n equals a,t,g, or c

| | |
|--|-----|
| <400> 82 | |
| gaattcggca cgagcatgag ccactgcacc cagccgatac tactataatcc ccattttaca | 60 |
| gtgagcaca tggccaaatt gagggttaagg cactgaccca tgatcataca gctgagaagt | 120 |
| ggcaaaggca ggatttgaac ctagaacatc tggctccaca cactagtaat ctaaaccact | 180 |
| cctccatcaa tacaacatac gtggtaaaga tgggtgggt gcacgcaatc aacgtaggtc | 240 |
| ccttcacagt tgctggaga ggcaggaatt tgcatgttcc cgcgttctc ctccctccgt | 300 |
| gcccacctgt cctgggtcat tcctgcagcs tgccctgccc tgccctggct caccctccct | 360 |
| ctgccaacag aagtctggc agggtttat gggctctgat aaggccctgg cagggccgaa | 420 |
| gttcatgagc acttcctt tgcaggaggg cgtagggag gggaccagg tgatgggt | 480 |
| cctggctggt caccaggaa gctggcaagg gaaggagac tagggtgcgc tctaggagaa | 540 |
| gccgacagcc tgagagtccc agaagaggag ccctgtggac cctccctgc cagccactcc | 600 |
| cttaccctgg gtataagagc caccaccgccc tgccatccgc caccatctcc cactcctgc | 660 |
| gctcttcata cagaccagcc actagcgcag ctcganggg gggccgtcc caatttncct | 720 |
| ct | 722 |

<210> 83
 <211> 785
 <212> DNA
 <213> Homo sapiens

<400> 83

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| gaattcgcca | cgagcttgtt | cacactcagt | aaacacatta | gttgaattcc | tctgattgtc | 60 |
| aatttagcaat | ggttttgc | agaatactgg | tattgatgct | gttttagca | ctgaaaaatc | 120 |
| ctgtggaga | aatgaggaat | ttaacacatt | gttaggtgtt | agattcctgg | gtgtctgaca | 180 |
| gtatccctgg | aaccattatc | attaattaac | tttcaatca | gaaaggcaaa | ctactttgct | 240 |
| gttaggcttc | cagatgaggt | tttttggaaaa | aacagtaaga | taataaaggc | ttggattgct | 300 |
| cctacttcct | gaggcaagtc | acatctcata | ttattcagaa | cttggactga | agagctcata | 360 |
| gggcaagtga | ggccaagg | aggagtc | agacatctt | ggccaagtgc | cattctagaa | 420 |
| gaaatgattc | tcttcctc | tcaccatcta | tctatgccc | caggttgac | tcgctcttt | 480 |
| cccaaggagt | gctgttcatt | cctgacacaa | gggagaccag | aaaagagatc | atgaatgaca | 540 |
| gtgaaaacct | ttatgacact | gacataaaagc | agagagttt | actgaatatg | agttggtagc | 600 |
| ttttccctt | tgatctgtt | agttgaatca | tacaaaattt | tcattttgtt | gattcaaaag | 660 |
| tgtaaaacaa | aagcaagttc | atatgattc | agcttacatt | ttttctcac | tataagaaag | 720 |
| aggattaaa | gaattgtatt | aggtagcga | atctgattt | tttcatgcaa | atacagctcc | 780 |
| tccga | | | | | | 785 |

<210> 84
 <211> 570
 <212> DNA
 <213> Homo sapiens

<400> 84

| | | | | | | |
|------------|-------------|------------|------------|------------|-----------------|-----|
| aaacgacggc | cagtgaattt | taatacgact | cactataggc | cgaattgg | accggccccc | 60 |
| ccctcgagtt | gaatttagaga | aaacgacatg | gacacacgtg | gagtgg | ttt aaggagcgga | 120 |
| gagtttaata | ggcaagaagg | aagggagaag | acagaaggaa | gaagct | cctc catatggaga | 180 |
| cagagggagg | ggggctccaa | agccaaaaga | ggaggtcccc | aagtgc | actgtgac | 240 |
| aagtatata | gcagaggctg | gaagggcga | tgtctgattt | acatagg | gtt cagggattt | 300 |
| gtttgaccac | gcatgttatt | cacatagccc | actaaaagc | tggct | ctcccc accctag | 360 |
| tttaatata | aaatgcaggg | agccatggat | gttctacaca | tgtgggata | tttggggatg | 420 |
| ttctacacat | gtggggcggc | catgttgcc | ggaacatgt | aggcaagg | gtt aaggcct | 480 |
| tggaaattt | gcatgttgggt | ggacccagtt | tctaattggc | tgcatttgca | tatcaaaggt | 540 |
| tgcgtg | cc | gaattcctgc | agccccgggg | | | 570 |

<210> 85
 <211> 905
 <212> DNA
 <213> Homo sapiens

<400> 85

| | | | | | | |
|------------|------------|------------|------------|------------|---------------|-----|
| gaattcgcca | cgaggtgt | aataaataaa | tcaacagaga | ttttaccat | tttttttttta | 60 |
| aactgatcta | gtttatcact | ctcttatctc | tacaattt | ctttcact | ca aagaactaaa | 120 |
| gttatcttcc | aaaaacacag | aatgaatcag | ctcactctt | tcaagact | tctaaatggtcc | 180 |
| ttcattactt | gttgagaaaa | gcccagactt | gtttagtgg | gcaattaaac | tccccacaat | 240 |
| ttatctgcca | gaagactt | tggaccat | tatggttt | ttgccttca | acttacagtc | 300 |
| ttatctgtcc | attatttttt | tctcatat | ccacacattt | ttgtgtcagg | taattttagt | 360 |
| cttttgcct | tgttcttact | atcagcca | ttcatagtt | aagtccagag | ttgggttgg | 420 |
| ttgttgtt | tttttatc | tttaggtt | attacaatt | tttattt | ttgtgacagc | 480 |
| attatttct | gacacat | tttcatat | ttttaaagag | tttctttt | aaacccatgt | 540 |
| tattcaaggt | taaacaata | acgagt | ttgttggat | gttatgtt | cacttactt | 600 |

| | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|-----|
| aatatgttgt | ttttttcca | gactagccat | tagcaagatt | cctgtggagt | gagggagtgc | 660 |
| ccagggtagt | tctccagatt | attctgctca | aattcttcct | cttctcatgc | tgcagtgtatg | 720 |
| aattatttct | tcaaaaactat | gaccccactg | tgtagctcca | ccttccttg | ttctcacaag | 780 |
| agtgtacaaa | atcggttagt | cttctgagcc | atggctaaca | agaatcctag | ctactgcctt | 840 |
| ccactatatac | tttccctttt | taaaaggagc | attttctgag | tttagtcatc | tcaggccttc | 900 |
| ctcga | | | | | | 905 |

<210> 86
 <211> 706
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| <400> 86 | | | | | | |
| gaattcggca | cgagcaaaga | tgaggctgtc | tacaaactta | tgtatcattc | taataaataat | 60 |
| ttaataacag | aatgttctaa | attttaatag | gaaaataata | ttaaggttcc | ttccatgtgc | 120 |
| catgcataat | cttataatcaa | gtataatttc | atttttatat | aatttctgtg | ccttacctct | 180 |
| tgcttcctccc | caattcacaa | atgaagaaag | tagttacacc | gcccttcgtt | catgtacaag | 240 |
| gggagggttt | gaatccaggt | ctcttaggaac | ccaaaagtca | tgcacccccc | aaggcaaagg | 300 |
| agattaccat | gttacagcat | agataaaaaac | ataatagaat | taggaattgg | ataagtatag | 360 |
| agggttcaat | agtgttccccc | caaaaattcct | cttaaacactg | aagctcagaa | tgtgacccca | 420 |
| tttggagata | ggatctccaa | aggtaatgca | gatgtaatca | gttaagatga | ggtcataaccg | 480 |
| gattaatttg | ggtcctaaat | ctaattgactg | gtatccctttt | aagaagaaga | gaaaacacag | 540 |
| gacacagaca | caaggaagca | gcaaaacgtga | agacagaggc | tgggggtgta | gtgatgcagc | 600 |
| tataaggcat | ggggccaccg | gaggctggga | agggataagg | agggacccctt | ccccaaagcc | 660 |
| ttcagagggga | gcagctgaca | ctttgaattt | ggacttctag | cctcga | | 706 |

<210> 87
 <211> 1544
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (8)
 <223> n equals a,t,g, or c

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| <400> 87 | | | | | | |
| natgctnca | actatttata | atgcataat | ttgaacttag | arggtrggag | atcrgatcat | 60 |
| atgtggaaa | atgtaaaagc | agggatatca | gtgggcattt | gaataaaaac | tagggataca | 120 |
| ataacttctt | tgcataatgac | aatacttatt | tgtatataag | agaaagaacg | aaataacctt | 180 |
| tattgaaata | aagatactat | gcaagaaaat | gtacagttgt | cgaagtggag | aaaatgagga | 240 |
| tatattcttg | cagacgagct | ataggtcata | catgaatgtc | tagtgagaca | ttcaaaaattc | 300 |
| gtatagggtg | cagagtaatt | tcttattgtg | aggaactgtc | caatgtattg | caagatgttc | 360 |
| tgcataacttg | gctctcacat | actaaatgt | agttagcgccc | ccaccccccac | gcccagtcac | 420 |
| ggtgacaacc | acaaaacccta | tcagatctat | tcacccctttt | cagagcagat | attttgtaac | 480 |
| attctctttg | ctgacctgaa | atgactcata | gataatacaa | tctacttaca | cacatgaatt | 540 |
| tcttaaaaaaa | atcaatttaa | tgcccttaact | ctcttattaa | ggagaaaatag | aaaagaagaa | 600 |
| atttataatg | aaaagaagat | gaatttcatt | atgtaaacgc | tcagggcatga | ctacgctgtt | 660 |
| tgaaacagac | agatgtttac | tcttccttgt | aatgagtagg | tttggattta | agagccgatt | 720 |
| agaggctact | tcctgtaaac | aagtacagga | aaatgaaaact | agacgggtgg | gggacactag | 780 |
| aatgaaaacc | agtgttaggg | taaagacaaa | acagactatg | tacataatct | gtatatggga | 840 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| aaagaaagag | cgaaattacc | ttacttaagg | ataataggac | aagacaaatt | acagattgtc | 900 |
| tcagagaaaa | caaatgagtt | actctctcg | acaagctgt | ggtcctac | aatgtccag | 960 |
| caggacatta | gacagt | cagggtac | aataattctt | cggtgtgt | cactaacc | 1020 |
| cacactgcag | gacatcg | tccctgg | catccact | gtgctgg | gatgtccc | 1080 |
| ttattatgaa | accaccaata | acccactg | cacagt | accactg | tttccact | 1140 |
| accta | tacttag | ccttagatt | gctcaact | tactt | aggagt | 1200 |
| ctacagaata | ggtc | atgttata | tgtatccaa | ctgaaatt | cttgcgc | 1260 |
| tgctttgata | attt | tgatccaa | ctgaaatt | ctgtt | cattagaat | 1320 |
| taagccccct | gagggtt | tcagt | ttgttgc | tgccac | gatgccc | 1380 |
| ccagcagcat | gtttgtaca | ctgat | ggtaaatt | tgttgaata | attaagct | 1440 |
| actattt | ttcaat | tgagttgt | tgctt | tctcaag | taatttgaac | 1500 |
| tgtctaataa | aaagaagtaa | ttaaaaaaaa | aaaaaaaac | tcga | | 1544 |

<210> 88
 <211> 840
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (326)
 <223> n equals a,t,g, or c

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 88 | | | | | | |
| gaattcggca | cgagctttt | cattatctt | accta | cttagcata | gatttatgg | 60 |
| ctggatgtt | gaggat | atc | agtggcaaa | aacaatcatt | agaggctgtt | 120 |
| tattgttat | ttgctac | ct | gtctataaaa | gtacacat | aggcccta | 180 |
| caaattatca | agtgc | ttttaa | agcagaaa | gtcattgtt | tctcaaact | 240 |
| tatataattt | ccctttaat | tatcc | gtgtt | ggccgtgaa | atttgcaaaa | 300 |
| aagctt | gatt | tac | tacatgt | tgcacnttgg | cgggatctt | 360 |
| atgctgagat | ggaat | ctt | atgtt | tgagggactt | acttagaaga | 420 |
| cagtaatgaa | actgaatcaa | ctgggttctt | caagatggaa | caatatggcc | atattcttgg | 480 |
| gccta | acatt | ttgaaaatt | cttttata | tggaatttta | ttttaattc | 540 |
| gaata | acat | taagtt | atgtt | cttgcagaat | ctttttttt | 600 |
| tttcaaggg | ctttt | gagga | gtat | tcctggcaat | ttcggattaa | 660 |
| ttcttcataa | attgt | catct | tcaaggt | actgagaact | ggatctgt | 720 |
| tttcgagatg | atttt | tat | ctgcagac | gtggctgat | tccagact | 780 |
| tttgtgtgca | tcat | catgt | ccattaaat | aaaaaaa | aaaaaaacy | 840 |

<210> 89
 <211> 510
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-----------|----------|-------|-------|-------|-----|
| <400> 89 | | | | | | |
| gaactastgg | atccccggg | ctgcagga | tcg | cgact | gtcg | 60 |
| cacca | atcg | ctc | gtc | ggc | ccgc | 120 |
| tttggccgt | gcca | ccct | cg | ctg | ccg | 180 |
| tgacagacac | atgc | gtgt | tc | gtc | acag | 240 |
| cgtggatcac | ctggg | gac | agg | ctg | ggagg | 300 |
| gaacctgccc | ccgg | gacc | cct | ctg | ggat | 360 |
| cctggagctg | gagcc | cagca | gttgg | gtgc | acact | 420 |
| gcctgttct | tgc | acttcc | tcc | tct | tat | 480 |
| aaaaaaaaaa | aaaa | aaaaaa | aaaa | actcg | aaaa | 510 |

<210> 90
 <211> 738
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (14)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (66)
 <223> n equals a,t,g, or c

<400> 90
 ncggaaagtgc gcgnacgta gtagggaaac ctgggacgcc gtgcaggtac cggccggaa 60
 ttcccngggt cgacccacgc gtccggtaa taactgtcat agtaaaaatg tggttttaa 120
 gagtagtagc tacttatggg ggttagaaaa gaatggcctc tcttttagac aatttcattt 180
 taaacatcat agtcatctt tgcatagtga ttgactccta tctttgtgggt ttcatgtatt 240
 tctttgtgat tgattccca gtgcctgcct gcagtcatt gcaactctcc caaactttaa 300
 tcctgcagct tcagcccaact gctagatatt tccattgtatg acctgtcatc tgaaacctag 360
 cattcatcat gtgctgtt gtagatattgt atgtctgtt tattgtatata ctttccaaag 420
 taaaagtttt gtgttaaggac ttaacactgc tttgaatccc ctgtacccat tatactgctg 480
 tgtacaaagt aggagtccaa atacatgtga tcacaatagt cttccatca taactcatca 540
 gcagctcagt ccttctttag tctagtctca gttcattcag ccaaagctca tttttgtcct 600
 atccaaagta gaaagggttc ttttagaaaa cttgaagaat gtgcctcctc ttagcatctg 660
 tttctgactc ccagtttattt taaaataaa tgatgaataa aatgccaaaa aaaaaaaaaaa 720
 aaaaaaaaaaa gggcggcc 738

<210> 91
 <211> 506
 <212> DNA
 <213> Homo sapiens

<400> 91
 tccgagtttt ttgttaccact gattgttctt tcgggtgggt tgttagaatt gagctgtta 60
 ttatagttc tctgttggaa gagcccacag ggaggagagg tgagctgagc atttgaaatt 120
 caggatctgg ttaakgttgt cagctcagtg gatttgagaa tattcacaga taagcaactc 180
 agaaggatca tacttgtatt gtggccctc aggtattcag gaaatagatc ttctttgtg 240
 attcaatagc cataatccaa attaaacatc tggctttcc aatgtgtatt tttgaatgt 300
 tgtgtcatctt cttcatagac atatcaaatc attactatgt ggtaagatctt tatccagaag 360
 attctcttcc taaaacctt atatatgacc cttttaaagc ataaaattat ttttaggtgt 420
 agtttttattt atgcaataca aggatacagt cttaatttt ctacctttaa gctcgtgccg 480
 aattcctgca gccccgggaa tccact 506

<210> 92
 <211> 1203
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1165)
 <223> n equals a,t,g, or c

<400> 92

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| gtggactctg | gctgtccttg | ggtggttcc | atgagcgtgg | ccaagactgg | gaggcagactc | 60 |
| agaaaatcta | caattgtcac | gtgctgtga | acagaaaaggg | gcagtagtgg | ccacttacag | 120 |
| gaagacacat | ctgtgtgacg | tagagatcc | agggcagggg | ctatgtgtga | aagcaactct | 180 |
| accatgcctg | ggcccagtct | tgagtcacct | gtcagcacac | cagcaggcaa | gattggtcta | 240 |
| gctgtctgt | atgacatgct | gttccctgaa | ctctctctgg | cattggctca | agctggagca | 300 |
| gagatactta | cctatccttc | agcttttggg | tccattacag | gcccagccca | ctgggagggtg | 360 |
| ttgctgcggg | cccggtctat | cgaaaccagg | tgctatgtag | tggcagcagc | acagtgtgg | 420 |
| cgccaccatg | agaagagagc | aagttatggc | cacagcatgg | tggttagaccc | ctggggaaaca | 480 |
| gtgggtggccc | gctgctctga | ggggccaggg | cttcgccttg | cccgaataga | cctcaactat | 540 |
| ctgcacagt | tgcgccaca | cctgcctgt | ttccagcacc | gcaggcctga | cctctatggc | 600 |
| aatctgggtc | accactgtc | ttaagacttg | acttctgtga | gttttagaccc | gcccctccca | 660 |
| cccccacct | gccactatga | gctagtgtc | atgtgacttg | gaggcaggg | ccagggcacag | 720 |
| ctcccctcac | ttggagaacc | ttgactctct | tgttggaaaca | catatgggct | gcttgggaaa | 780 |
| gaaacttca | cctgagcttc | acctgaggtc | agactgcagt | ttcagaaaagg | tggaaatttta | 840 |
| tatagtcat | gttattttca | tggaaaactga | agttctgtg | agggctgagc | agcaactggca | 900 |
| ttgaaaaata | taataatcat | aaagtctgt | tctggacatc | gcctttggg | actagaaggg | 960 |
| gagttggat | tgttccatgt | ggactaaagct | ccagttctag | acctcctggc | tcattcaaca | 1020 |
| tgcctcccta | cctaaataaa | agtcaacac | tcagtgcat | tcccagcccc | attctcccaa | 1080 |
| gcatgggagt | gggcgttagg | gtggaggagg | gggaaggaaa | aaggaattac | ttcacttaca | 1140 |
| cctatgtgc | cctttggcca | agccngaaga | aagcaagg | gaaaaggggc | tgcagggtac | 1200 |
| att | | | | | | 1203 |

<210> 93

<211> 710

<212> DNA

<213> Homo sapiens

<400> 93

| | | | | | | |
|------------|-------------|-------------|------------|------------|-------------|-----|
| gaattcggca | caggttcac | catgttggcc | aggctggct | caaactcctg | accgcagkga | 60 |
| tcccaaagt | ctgggattac | aggtatgarc | ctcccaaagt | gctgggat | caggcatgag | 120 |
| ccactgtccc | cagcaggatt | atcttactat | atttgccac | agaatattt | attagcg | 180 |
| gattggatt | acatagaatt | ataaaatttg | tatttgtac | tttctgtgg | aaatcatgat | 240 |
| accatgaaca | ttctgatgtt | tgcgttatg | ataattttca | tgggagctaa | atttcaagaa | 300 |
| gtagaatttt | gggtcagagg | atatgatcat | ttaaaagcaa | catatgttga | tcagattggc | 360 |
| agatactta | agatgggtgg | acaggagcca | ttgttggcaa | aggtttgggt | aaggggcact | 420 |
| tgatgtatgt | gctagtgtaca | gggaatttcta | cgcatttgc | catagaatct | gggaatgtact | 480 |
| attaagattt | atttattcc | tctctagta | aaatccctct | ctaggtat | aaataaataaa | 540 |
| taaataataa | ataaataatc | agtttcagcc | aggcacaatg | gctcacac | gtaatcccag | 600 |
| cactttggg | ggccaaggcc | gatggatcac | ttgaggtcaa | ggagtttgag | accagtctgg | 660 |
| ccaacgttgt | gaaacccat | ctctactaaa | aaaaaaaaaa | aaaaactcga | | 710 |

<210> 94

<211> 1750

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (34)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1287)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1392)
 <223> n equals a,t,g, or c

<400> 94

| | | | | | | |
|-------------|--------------|------------|------------|------------|-------------|------|
| agaaaagtcaa | agctgtttgc | aatnatataa | attnctaatt | tggaaatcat | gacaaggcagt | 60 |
| cttaagaaca | aaggtaaaat | taaaaagtct | ttatccaagt | caccaatgaa | acaggattct | 120 |
| gattcataa | tcatgtcttg | cccactttt | tcaacaaacc | tgacgtccta | taatgagcta | 180 |
| tacagtgtga | ggcatatttc | atagcaacgt | tgggtgattg | ccaaggagac | tctgccaccg | 240 |
| ttctggataa | gctcatgttt | cccttttctt | tggctgctaa | tagaagggca | acttacagtg | 300 |
| cagggtcaag | agcaagaaggc | tgggggagta | gagctatac | atctagccta | ataatagaga | 360 |
| tctgagggtgg | tyaccaggag | actacgttct | tttattcca | tccctcagca | gaaaaagtac | 420 |
| ttgagttcaa | atgataaaaac | ttgaagttgt | aggcttggaa | gagtatcagc | tcagtatatc | 480 |
| cttccttgca | taaatacacaag | ggaaaggcca | aggaataatc | agcattaacc | tgccaggtcc | 540 |
| aagggtcttc | tatccctgac | ttcatctgag | tcacaagatt | tctctaataa | gagaacttt | 600 |
| gctactctga | ggaaaattat | cccttatggg | agccccact | tcagaggtaa | gaacagttct | 660 |
| ttcacgtgga | ggtccaaaat | tctggacitc | tagaaacaag | tgaagtgtgc | taaagtctcc | 720 |
| tatttattgt | ttctcttcca | gtattgtgcc | atcgattctt | gcataaaatt | ctgaatgct | 780 |
| ggctttccat | ggctttccctc | tgtaactctg | tggtaatgt | catcagtatc | gctgtctgct | 840 |
| tcctcatctt | ttcatatccaa | ggttcctcga | gtcaggatca | aatcagaagg | gtgcagcaca | 900 |
| ggagataaagc | tgtctttggc | agtccttgca | tccaaggcta | cagaaccat | atctttcga | 960 |
| aggcgttcca | gttcttctct | ctgctgttgg | ctctctgcgt | tggccagtga | ttttttcaga | 1020 |
| cgttcatatt | caggacgata | ctcccttca | tattttcg | cagcactgg | aacttgcaca | 1080 |
| aagagttcat | ctaattccagt | acccagaaca | gcagagacac | ccaccaccc | gagtgagctg | 1140 |
| taaaactcat | ctaacaccag | gctcattgaa | cgagtcaggt | tatgacgtat | gtagtcctt | 1200 |
| gattcaaggc | atcttgaaa | gcctyaaaat | cctgcatcca | ttccactgca | aagctgtgg | 1260 |
| caatgatgtc | agttttattc | atgcccncaa | tgaaagccag | cttggtttg | tataagatgc | 1320 |
| tgcaggcata | gagcatgttg | cacatgaagg | tcactgggt | ggtacttctc | gatgtgtcca | 1380 |
| ttacatagat | gncaactgtt | ggaaatgagg | atgcaagggc | ttcagtgata | attgtccctag | 1440 |
| aagctgacca | ggtaataacc | tcaatctgtc | caggtgtgtc | aatcaacaca | tatttggaca | 1500 |
| tgttctgggc | tttctcaata | aatttcatca | ccaatattgg | caggaaagg | aacttcatgt | 1560 |
| actgtgttgc | ccagggttgc | cacatacgtt | ggagtgcctt | ggcgtgcag | gtgtcctgtg | 1620 |
| agcctctgt | caaaaagtgg | tttcccgat | ccgcattc | ccaacacaa | cagacacact | 1680 |
| gggtgccgcg | gaccccccaga | agcctggagc | tcagcggcag | ctgcggacgc | cgccatcttc | 1740 |
| ctccctggca | | | | | | 1750 |

<210> 95
 <211> 606
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (272)
 <223> n equals a,t,g, or c

<400> 95

| | |
|---|-----|
| ggaattcggc acgagggaaat aagggtacag atccccagct gctgaagaac tagaatgtct | 60 |
| attacactca tacaattgtat gttttatattt aatacaccag agctaccaca caaaacttcc | 120 |
| ttccatgtga aaggctccag ataaaattct gccatccctc ctctcctcat gtccctctgc | 180 |
| tcagaccac cttcatgccc ctaaaccat ctgcatcatg cctgtttcag agagtcatgg | 240 |
| gaagatgggc agtgcctcca ttgtcaccat tnccccacac ctctgcacac ttctgcccct | 300 |
| tcccctctag acgccacaac ttcacagtt tactgttta aatattctg cacagttagt | 360 |
| aatgatcaaa tgatcctgtg gtcagaggcc tcttggcag tgccttcata cccttaagaa | 420 |
| aggtcatgaa atccagaagg ggcaacccccc ccaggagagc tttggagtc tttctgtgt | 480 |
| agacactatt gcataatcc gtaagattgc tttatattt aaggaatgt gttacttaac | 540 |
| aaatgaacaa aaaaaattgc aaataaattt tttaacaatg tttaaaaaaaaaaaaaaaa | 600 |
| actcga | 606 |

<210> 96

<211> 617

<212> DNA

<213> Homo sapiens

<400> 96

| | |
|---|-----|
| gaattcggca cgaggcggaa gatagattaa aatgtctcta cttctctttt taaaagttca | 60 |
| tcttttagc cttcttacaa tttcaaaag aaataattag atggtcgtg taacatttat | 120 |
| atgaagaaaa tagtttgaga caacctaaat atgtcaatac trgawtaatt attaaaataa | 180 |
| wtcatggccc tgtcatataa twgaatacta tggagttgg aagaaaagcat gatgtagaat | 240 |
| atttaaattat atggggaaat aatcagtaaa tctttttaaa acagaagta aaactataca | 300 |
| tagttcaata tagtaaagag ggccgggcac agtgcacg cctgtaatcc cagcactttg | 360 |
| ggaggcacaag acaggtggat cacctgaggt tggagttcc agactagcct ggccaacatg | 420 |
| gctagtctct actaaaaata caaaaatccag ccaggcatgg tagcaggcac ctgtaatcca | 480 |
| agctacttgg cagggaaaggc aggagaatta cctgaaccca gaaggcagag gttgcgggtga | 540 |
| gccaaaatca tgccactgca ctccagcctg ggcaccagag taaaactctg tctaaaaaaaaa | 600 |
| aaaaaaaaaaa aactcga | 617 |

<210> 97

<211> 634

<212> DNA

<213> Homo sapiens

<400> 97

| | |
|--|-----|
| gaattcggca cgagatccct tgacccctcg ggttaggcaca gggtaggtgc agcagggatg | 60 |
| ggcccgccgc tcatggggc ctctctgtgc ctgggtggac ctgccccagc agtggggagcc | 120 |
| ataacccctt ccccttcat tacttactc aggtgggcac cttccctgc agggtgtctg | 180 |
| ccctcagggc actcaaggac tctcagagac accaggcag cctggcccg aggagcaaca | 240 |
| gccaggcccc caggaggaca gcccattggaga gaactgagac ccacttacag tgggtctgg | 300 |
| gaaccctggc tgtacctggg gtycagttcc tcccaactcc ctccctgtgt ctccccccca | 360 |
| gcaaagggtgg ggtgaccact tctgttagta agcacctgct cccggctct ctccacccag | 420 |
| gacatctgtc tctctggagt gtctgtctgt ctgtccctcc ctctctgtaa ctgtttctc | 480 |
| cgtgtccct gtcctcgcc cctgggagcc camtcccmct ccttgcgct ccctccatc | 540 |
| tcactcaagg ttctctgagg acattnaaat ggtggattca ccctgaaaaa aaaaaaaaaaa | 600 |
| aaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaac tcga | 634 |

<210> 98

<211> 512

<212> DNA

<213> Homo sapiens

<220>
 <221> SITE
 <222> (483)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (487)
 <223> n equals a,t,g, or c

<400> 98

| | | | | | | |
|------------|------------|--------------|------------|-------------|-------------|-----|
| gtggatcccc | cgggctgcag | gattggcac | gagtctgact | ggaaggggtg | agggtgtgcag | 60 |
| ataattttac | tttcaacta | cagaaaagat | gtatctgggt | aaagaaaatc | atgcatttaa | 120 |
| ctacatcaat | gcagcctatg | aacaatagcc | tgtgaccata | actagatatc | tcaccaacgt | 180 |
| ggcagcttt | cctaaccaaa | agatcaaatc | aaaactctag | tggcattttc | ctatcactca | 240 |
| cagaacaggc | taagcttccc | acctggagta | gaccggagc | ctagaactca | taaaaattt | 300 |
| taaaaatcaa | acaaaacatg | aaagtacaaa | gtttctacaa | aactcttatac | cctctcctga | 360 |
| caatatttat | gatggtgca | ttagtgaatt | ttactggaaa | aaaaaaattcc | caaaactatc | 420 |
| cagctgrraa | tataagctca | cttccaaagg | ataaaacagt | taagacgaga | ttaggataaa | 480 |
| ttnactnaca | aaaaaaaaaa | aaaaaaaaactc | ga | | | 512 |

<210> 99
 <211> 944
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (486)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (934)
 <223> n equals a,t,g, or c

<400> 99

| | | | | | | |
|-------------|-------------|------------|------------|--------------|--------------|-----|
| tcccccggac | tgnccaggaat | tcggcacgag | cagccttcga | agttgatgcg | actgctgagc | 60 |
| tctaattgagg | acgatgccaa | catccttgc | agccccacag | accgatccat | gaggcagctcc | 120 |
| ctctcaggct | ctcagctcca | cacggtaaac | atgcgggacc | ctctgaaccg | agtccctggcc | 180 |
| aacctgtcc | tgctcatctc | ctccatcctg | gggtctcgca | ccgctggccc | ccacacccag | 240 |
| ttcgtgcagt | ggttcatgga | ggagtgtgt | gactgcctgg | agcagggtgg | ccgtggcagc | 300 |
| gtccctgcagt | tcatgcccctt | caccaccgtg | tggaaactgg | tgaagggtgtc | agccatgtcc | 360 |
| agcccccaagg | tgggtctggc | catcacggac | ctcagcctgc | ccctggggccg | ccaggtggct | 420 |
| gctaaagcca | ttgctgcact | ctgaggggct | tggcatggcc | gcagtggggg | ctggggactg | 480 |
| gcgcancccc | aggcgccctcc | aagggaagca | gtgaggaaag | atgaggcata | gtgcctcaca | 540 |
| tccgctccac | atggtgcaag | agcctctagc | ggcttccagt | tcccccgcctcc | tgactcctgt | 600 |
| cctccagat | gtctcccggt | ttcttcttcc | aaaatttctt | ctccatctgc | tggcacctga | 660 |
| ggagtgtgag | caacctggac | cacaagccca | gtggtcaccc | ctgtgtgcgc | ccgccccagc | 720 |
| ccaggagtag | tcttacctct | gaggaacttt | ctagatgcaa | agtgtgtata | tgtgtgtgt | 780 |
| tgtgtgtgt | tgtgtgtgt | tgtgtttatg | tgtatttgt | aatatgtgag | ggaaatctac | 840 |
| tttcgttcat | gtataaataaa | agtcctcgt | ggctccctta | aaaaaaaaaa | aaaaaaaaactc | 900 |

| | | | | | | |
|----------------------------|-------------|-------------|-------------|-------------|-------------|------|
| gagggggggc | ccgtacccag | ctttttccc | tttngtgagg | ttgg | 944 | |
| <210> 100 | | | | | | |
| <211> 2351 | | | | | | |
| <212> DNA | | | | | | |
| <213> Homo sapiens | | | | | | |
| <220> | | | | | | |
| <221> SITE | | | | | | |
| <222> (593) | | | | | | |
| <223> n equals a,t,g, or c | | | | | | |
| <400> 100 | | | | | | |
| acccacgcgt | ccgccacgcg | tccgggtcca | ttgccacctg | gatgggagaa | gagaacagac | 60 |
| agcaatggca | gaggatattt | cgtcaaccac | aacacacgaa | ttacacaatg | ggaagacccc | 120 |
| agaagtcaag | gtcaattaaa | tgaaaagccc | ttacctgaag | gttgggaaat | gagattcaca | 180 |
| gtggatggaa | ttccatattt | tgtggaccac | aatagaagaa | ctaccaccta | tatagatccc | 240 |
| cgcacaggaa | aatctgcct | agacaatgga | cctcagatag | cctatgttcg | ggacttcaaa | 300 |
| gcaaagggttc | agtatttccg | gttctgggt | cagcaactgg | ccatgccaca | gcacataaag | 360 |
| attacagtga | caagaaaaac | attgtttgag | grtccttc | aacagwtawt | gagcttcagt | 420 |
| ccccaaagatc | tgcgargacg | tttgggggtg | attttccag | gagaagaagg | tttagattat | 480 |
| ggaggtgttag | caagagaatg | gttctttctt | ttgtcacatg | aagtgttcaa | cccaatgttat | 540 |
| tgcctgttt | aatatgcagg | gaaggataac | tactgcttc | agataaaaccc | cgnntcttac | 600 |
| atcaatccag | atcacctgaa | atattttgt | tttattggca | gatttatgc | catggctctg | 660 |
| ttccatggga | aattcataga | cacgggttt | tcttaccat | tckakaagcg | tatcttgaac | 720 |
| aaaccaggta | gactcaagga | ttttagaatct | attgatccag | aattttacaa | ttctctcatc | 780 |
| tgggttaagg | aaaacaatat | tgaggaatgt | gatttggaaa | tgtacttctc | cgttgacaaa | 840 |
| gaaattctag | gtgaaattaa | gagtcatgt | ctgaaaaccta | atggtggcaa | tattcttcta | 900 |
| acagaagaaa | ataaaagagga | atacatcaga | atgttagctg | agtggaggtt | gtctcgaggt | 960 |
| gttgaagaac | agacacaacg | tttctttgaa | ggctttaatg | aaattcttcc | ccagcaaatat | 1020 |
| tgcataact | ttgatgcaaa | ggaatttagag | gtcctttat | gtggaatgca | agagattgtat | 1080 |
| ttgaatgact | ggcaaagaca | tgccatctac | cgtcattatg | caaggaccag | caaacaatc | 1140 |
| atgtggttt | ggcagtttg | taaagaaatt | gataatgaga | agagaatgag | acttctgcag | 1200 |
| tttgttactg | gaacctgccc | attgccagta | ggaggattt | ctgatctcat | ggggagcaat | 1260 |
| ggaccacaga | aattctgcat | ykaaaaagtt | gggaaagaaa | attggctacc | cagaagtcat | 1320 |
| acctgtttt | atgccttgg | cctgccacca | tacaagagct | atgagcaact | gaaggaaaag | 1380 |
| ctgttggtt | ccatagaaga | aacagaagga | tttggacaag | agtaacttct | gagaacttgc | 1440 |
| accatgaatg | ggcaagaact | tatttgcmat | gttgcctt | ctctgcctgt | tgcacatctt | 1500 |
| gtaaaatgg | acaatggctc | tttagagat | tatctgatgt | taagtaatt | aatgttctca | 1560 |
| tttagat | tctccagtg | atttctactc | agcgtttcca | gaaatcagg | ctgcaatgaa | 1620 |
| ctagtcagaa | ccttgctta | catgagat | taacacaaca | atgaaat | ccttgtctt | 1680 |
| ttccacttagt | ttattccctt | aacaacaata | ttttatgtgt | gtcaaaatgc | tcacttggga | 1740 |
| gtagtgttt | tttcttttag | acattctgca | gacatgcagg | gaagtcctt | ggttaactgca | 1800 |
| atatacaaga | tttccttatt | aaggcttctg | gtaagaggca | tttggtaaaa | gtcaagctt | 1860 |
| actcctgctt | ctggggatgt | gacaaaatc | gggcttgtgt | tctccctctc | attttagtct | 1920 |
| gacttgacta | tttttttcc | tttctggcgc | atgaatccat | acatcattcc | tggaagttag | 1980 |
| gcaagactct | tgcatctcta | caaagtat | ttgtcaattt | gaattcagg | aaaagttgt | 2040 |
| cacagcctgc | aaatgacttc | atttggaaat | ctgattgtt | cagttgcctg | acaaataacta | 2100 |
| cactttacaa | acaatgttta | cactgtgatt | ccttcattgt | tttaagaatgt | taaccttaggg | 2160 |
| ccgggcattgg | tggctcatac | ctgtatctt | agcactctgg | gaggccgagg | caggaggatc | 2220 |
| ccttttagccc | aggagttaaa | gaccagcctg | ggcaacatag | ggagaccctg | tcttttttt | 2280 |
| gggcagcgtg | gtgggggata | aataaaaaaa | aaaaaaaaaa | actcgaggg | ggccccgtac | 2340 |
| ccaatcgct | g | | | | | 2351 |
| <210> 101 | | | | | | |
| <211> 776 | | | | | | |

<212> DNA
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (775)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (776)
 <223> n equals a,t,g, or c

<400> 101
 aatgaaggct ttgtggacaa catgacgctg agtggcccag acttggagct gcatgcctcc 60
 aacgcccaccc tcctaagtgc caacgcgcagc caggggaagt tgcttcggc ccactcaggc 120
 ctcagcctca tcatcagtga cgcaggccct gacaacagtt cctggggccc tggggcccm 180
 gggacagttg tggtagccg tattcattgtg tgggacatca tggcctcaa tggcatcata 240
 catgctctgg ccagccccct cctggcaccac ccacagcccc aggcaagtgc ggcgcctgaa 300
 gccccacctg tggcggcagg cgtggggct gtgcttgcg ctggagact gcttggcttg 360
 gtggccggag ctctctaccc cctgtccccga ggcaagcccc tgggcttgg ctctctgccc 420
 ttccagcgg aagatgatgc ttagtgcac ttctcaccgt ggcaagaagg gaccaaccccc 480
 accctgtct ctgtcccaa ccctgtctt ggcaagcaca ccttttgc acccttcgat 540
 gactcactgc tggaggagga ctcccctgac acccagagga tcctcacagt caagtgacga 600
 ggctggggct gaaaggcagaa gcatgcacag ggaggagacc acttttattt cttgtctggg 660
 tggatggggc aggaggggct gagggcctgt cccagacaat aaaggtgccc tcagcggatg 720
 tggccatgt caccaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaann 776

<210> 102
 <211> 1065
 <212> DNA
 <213> Homo sapiens

<400> 102
 gaattcggca cgagagggtc agggaggctg ccccccaggcc tggatattta acccctatgt 60
 accaggagta atgaatagta ataattctat ttatgttaatg tattatgcg ggtcaggtag 120
 agttagctgg ggagggaagt ggatccatctt ctgctaagga aattctatgc aatgcatact 180
 ctgtatagac aaaatgttag tggagaagat ctgttaataa gaatgtctat catcagaatc 240
 tcagttgata gggtttctct tggatgtaaat tctctacaaa ttgggttagc tacatctctg 300
 ctaaacagtt gatggggat ctcttgatta gggggatccc taatatcccc agccccagcc 360
 agaagctgtg aaacactcaag tcctatggag gggagaagga ctggaaatgtc ccccatctyc 420
 cttgactgma gacgagggtc ctccactgccc ccacccctta gacaccatg ccccatcagg 480
 ttaatccccct gttgccatgg ttatggagac ttgcagctgc catcttagat gtgtctttg 540
 gggaaagccca tctaacagga ggacattgg tgggggggtgc accttcctgaa gaatgggtgg 600
 ggaaggctt ctctaggatc agattcaaat aaatcaagta tggatgttgc gcttactctg 660
 tgcaaggcac tatgtctatgt ctgggtccctaa gaagccctga gaaagaactt aaagagctag 720
 gaggacagag gcccccaagc tgatctgg tggcatccac gcaccccccac cctggggactt 780
 tggatgtcc catctccacc tccagtgact tttaaaggccg ctgcgtgcct ttctgttaac 840
 gttggatctt ctttttctgt cccctgtgt ctcaaggccc caagttaaag gtttaaagcc 900
 gctggagctt ggggagagaa cattgtggaa tggagggat catgccctt gtggagtctt 960
 ttttttttaa tttaataat aaaatgttga tttggaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 1020
 aaaaaaaaaaaa ctcgcagggg gggcccgatcc cggatcgcc ctatg 1065

<210> 103
 <211> 687
 <212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (660)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (664)

<223> n equals a,t,g, or c

<400> 103

| | |
|---|-----|
| aaaccagctt ttgccctgat tacgccangc tcgnaattam cctcactaaa gggancaaag | 60 |
| ctggagctcc accgcgggtgg cggccgtct agaactagtg gatccccgg gctgcaggaa | 120 |
| ttcggcacga gcagaaaaca acatgaaagc caagttccta ggaaatgcac cctgtgggca | 180 |
| ctacacattc aagttccccc aggcaatgcg gacagagagt aacctcgag ccaaggtgtt | 240 |
| cttcttcaaa gcactgctat taactggaga cttttcccgag gctggaaata agggccatca | 300 |
| tgtgtgggtc actaaggatg agctgggtga ctatggaaa ccaaaataacc tggcccaagt | 360 |
| taggaggttt gtttcagacc tctgatgggc cgagctgcct gtggacggtg ctcagacaag | 420 |
| tctgggatta gagcctcaag gacattgtgt gattgcctca cattgcagg taatatcaag | 480 |
| cagcaaacta aattctgaga aataaacgag tctattacaa aaaaaaaaaaaa aaaaaactcg | 540 |
| agggggggcc cggtacccaa tttgcctca tagtgagtcg tattacatt cactggccgt | 600 |
| cgttttacaa cgtcgtgact gggaaaccc tggcgttacc caacttaatc gccttgnagn | 660 |
| aacntccctt ttccggcagct gggtaa | 687 |

<210> 104

<211> 804

<212> DNA

<213> Homo sapiens

<400> 104

| | |
|--|-----|
| gaattccggca cgagattttc ttcatgcagt attctcagat tggaaacatg cttcatgttt | 60 |
| cttataaata accctcaatt atgagggcgt acttttcaact ttgaagaaaa ttgacttgca | 120 |
| ttaaagtggc taacaattct ttccctggca ggatgtaaaa ttttcctctc ctctaatacc | 180 |
| agtactgttg agctcacatt ctcccacttt tcctctttc aggtgggtca cgtatgggg | 240 |
| attttatgaa acctcagaag cagacatgtt aacttttctt atcttttat tccctgaggt | 300 |

| | |
|--|-----|
| agtccctgggg ctcttaagag attacagttc taaaacctg gaaagtgaca ccagagaggt | 360 |
| agatcttagt tcccaaatt aaagttactt tctagggcat aaaacctttt cagaattcag | 420 |
| attaaattttt atttattttt tctttttct gtaacctt atttgagggg aaaattttat | 480 |
| tttcaacttt tgcatatatc taatthaaca tttggaaaaa ctgtaaaatgg gccaaagttt | 540 |
| ctccctttat atgattttcc agattttac cactttctt gtcacttg atgttaggca | 600 |
| ttgtctattt gagactcaact ggtacgtaac tgcaagttt accatgaaac cacatataca | 660 |
| catgtcttgg aattgagggt tagggttcc agaaggactt agttgtcctg tgctttgtc | 720 |
| tgccccatgc caaagaccac taagaacagt tttgtaagtg aaacttgggt ctacacgtta | 780 |
| aaaaaaaaaa aaaaaaaaaac tcga | 804 |

<210> 105
 <211> 373
 <212> DNA
 <213> Homo sapiens

| | |
|---|-----|
| <400> 105 | |
| ccacgcgtcc ggttcttga ttgcttcata agaaaccgggt gtattgtct gtgctgaggt | 60 |
| cttagatatg ttcttagcaact caggagtcca aaccattgct tttgggttag aatgcata | 120 |
| aagaaacatg cacgtctatc tgaactacaa ataaactttc tgcttaagtc tacttaggct | 180 |
| aatgttggaaa catttggta ttcacacacaa accacatggg ggcagaagaa gagagaccct | 240 |
| cattacacca catagtagca ataggagctg caatgtcaca atgagtttta aaaagaatgc | 300 |
| ctctttaaaaa gaaaaaaaaa aacaagaaag aaagaaaaaaaaa aaaaaaaaaa aaaaaaaaaa | 360 |
| aaaaaaaaaa aaa | 373 |

<210> 106
 <211> 687
 <212> DNA
 <213> Homo sapiens

| | |
|---|-----|
| <400> 106 | |
| ccacgcgtcc gctccctgtga ggtatggtgc tgggtgcaga tgcagtgtgg ctctggatag | 60 |
| caccttatgg acagttgtgt ccccaaggaa ggatgagaat agctactgaa gtctaaaga | 120 |
| gcaaggctaa ctcaagccat tggcacacag gcattagaca gaaagctgga agttgaaatg | 180 |
| gtggagtgcca acttgcctgg accagcttaa tgggtctgct cctggtaacg ttttatcca | 240 |
| tggatgactt gcttggtaa ggacatgaag acagttcctg tcataccctt taaaggtatg | 300 |
| gagagtccgc ttgactacac tgggtggagc aagttttaaa gaagcaagg actcagaatt | 360 |
| catgattgaa gaaatgcagg cagacctgtt atcctaaact agggtttta atgaccacaa | 420 |
| caagcaagca tgcagcttac tgcgttggaaag ggtcttgccct caccctaaatc agatgtcagt | 480 |
| ggcctttgaa gcttactaca gcctcaaaact tctgggtctca agtgcacccctc agcctccat | 540 |
| tggtctttgt agactgcctg atggagtcctc atggcacaag aagattaaaaa cagtgtctcc | 600 |
| aattttataa aatttttgcata tccaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa | 660 |
| aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa | 687 |

<210> 107
 <211> 37
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals stop translation

<400> 107
 Met Glu Val Leu Phe Asp Ser Leu Leu Phe Ser Ser Phe Ile Phe Pro

| | | | |
|---|----|----|----|
| 1 | 5 | 10 | 15 |
| Ser Gln Ser Leu Leu Ser Arg Thr Ser Ala Phe Ser His Lys Pro Asn | | | |
| 20 | 25 | 30 | |
| Gly Leu Ser Glu Xaa | | | |
| 35 | | | |

<210> 108

<211> 457

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 108

| | | | | |
|---|---|---|----|----|
| Met Val Thr Cys Thr Cys Leu Pro Asp Tyr Glu Gly Asp Gly Trp Ser | 1 | 5 | 10 | 15 |
|---|---|---|----|----|

| | | | |
|---|----|----|----|
| Cys Arg Ala Arg Asn Pro Cys Thr Asp Gly His Arg Gly Gly Cys Ser | 20 | 25 | 30 |
|---|----|----|----|

| | | | |
|---|----|----|----|
| Glu His Ala Asn Cys Leu Ser Thr Gly Leu Asn Thr Arg Arg Cys Glu | 35 | 40 | 45 |
|---|----|----|----|

| | | | |
|---|----|----|----|
| Cys His Ala Gly Tyr Val Gly Asp Gly Leu Gln Cys Leu Glu Glu Ser | 50 | 55 | 60 |
|---|----|----|----|

| | | | | |
|---|----|----|----|----|
| Glu Pro Pro Val Asp Arg Cys Leu Gly Gln Pro Pro Pro Cys His Ser | 65 | 70 | 75 | 80 |
|---|----|----|----|----|

| | | | |
|--|----|----|----|
| Asp Ala Met Xaa Thr Asp Leu His Phe Gln Glu Lys Arg Ala Gly Val- | 85 | 90 | 95 |
|--|----|----|----|

| | | | |
|---|-----|-----|-----|
| Phe His Leu Gln Ala Thr Ser Gly Pro Tyr Gly Leu Asn Phe Ser Glu | 100 | 105 | 110 |
|---|-----|-----|-----|

| | | | |
|---|-----|-----|-----|
| Ala Glu Ala Ala Cys Glu Ala Gln Gly Ala Val Leu Ala Ser Phe Pro | 115 | 120 | 125 |
|---|-----|-----|-----|

| | | | |
|---|-----|-----|-----|
| Gln Leu Ser Ala Ala Gln Gln Leu Gly Phe His Leu Cys Leu Met Gly | 130 | 135 | 140 |
|---|-----|-----|-----|

| | | | | |
|---|-----|-----|-----|-----|
| Trp Leu Ala Asn Gly Ser Thr Ala His Pro Val Val Phe Pro Val Ala | 145 | 150 | 155 | 160 |
|---|-----|-----|-----|-----|

| | | | |
|---|-----|-----|-----|
| Asp Cys Gly Asn Gly Arg Val Gly Xaa Val Ser Leu Gly Ala Arg Lys | 165 | 170 | 175 |
|---|-----|-----|-----|

Asn Leu Ser Glu Arg Trp Asp Ala Tyr Cys Phe Arg Val Gln Asp Val
 180 185 190
 Ala Cys Arg Cys Arg Asn Gly Phe Val Gly Asp Gly Ile Ser Thr Cys
 195 200 205
 Asn Gly Lys Leu Leu Asp Val Leu Ala Ala Thr Ala Asn Phe Ser Thr
 210 215 220
 Phe Tyr Gly Met Leu Leu Gly Tyr Ala Asn Ala Thr Gln Arg Gly Leu
 225 230 235 240
 Asp Phe Leu Asp Phe Leu Asp Asp Glu Leu Thr Tyr Lys Thr Leu Phe
 245 250 255
 Val Pro Val Asn Glu Gly Phe Val Asp Asn Met Thr Leu Ser Gly Pro
 260 265 270
 Asp Leu Glu Leu His Ala Ser Asn Ala Thr Leu Leu Ser Ala Asn Ala
 275 280 285
 Ser Gln Gly Lys Leu Leu Pro Ala His Ser Gly Leu Ser Leu Ile Ile
 290 295 300
 Ser Asp Ala Gly Pro Asp Asn Ser Ser Trp Ala Pro Val Ala Pro Gly
 305 310 315 320
 Thr Val Val Val Ser Arg Ile Ile Val Trp Asp Ile Met Ala Phe Asn
 325 330 335
 Gly Ile Ile His Ala Leu Ala Ser Pro Leu Leu Ala Pro Pro Gln Pro
 340 345 350
 Gln Ala Val Leu Ala Pro Glu Ala Pro Pro Val Ala Ala Gly Val Gly
 355 360 365
 Ala Val Leu Ala Ala Gly Ala Leu Leu Gly Leu Val Ala Gly Ala Leu
 370 375 380
 Tyr Leu Arg Ala Arg Gly Lys Pro Met Gly Phe Gly Phe Ser Ala Phe
 385 390 395 400
 Gln Ala Glu Asp Asp Ala Asp Asp Phe Ser Pro Trp Gln Glu Gly
 405 410 415
 Thr Asn Pro Thr Leu Val Ser Val Pro Asn Pro Val Phe Gly Ser Asp
 420 425 430
 Thr Phe Cys Glu Pro Phe Asp Asp Ser Leu Leu Glu Glu Asp Phe Pro
 435 440 445
 Asp Thr Gln Arg Ile Leu Thr Val Lys
 450 455

<210> 109
 <211> 103
 <212> PRT

<213> Homo sapiens

<400> 109

Met Gly Ser Trp Cys Leu Arg Gly Gly Ala Val Glu Glu Pro Ala Leu
 1 5 10 15

Gln Ser Arg Glu Met Gly Tyr Ile Pro Val Leu Leu Pro Ser Ile Gly
 20 25 30

Leu Glu Val Ser Gln Leu Leu Ala Gly Ala Gly Asp Ile Arg Asp Pro
 35 40 45

Pro Asn Gln Glu Ile Pro His Gln Leu Phe Ser Arg Asp Val Ala Asn
 50 55 60

Pro Ile Cys Arg Asp Phe Ile Thr Arg Glu Thr Leu Ser Thr Glu Ile
 65 70 75 80

Leu Met Ile Asp Ile Leu Leu Thr Arg Ser Ser Pro Leu Thr Phe Cys
 85 90 95

Leu Tyr Arg Asp Ala Phe Asp
 100

<210> 110

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals stop translation

<400> 110

Met Gly Gly Thr Glu Ser Tyr Ile Ser Ser Ser Pro Leu Leu Arg Thr
 1 5 10 15

Leu Leu Leu Ser Tyr Leu Val Phe Leu Tyr Tyr Leu Tyr Leu Leu Phe
 20 25 30

Tyr Val Ala Arg Ser Pro Phe Gly Lys Ala Glu Tyr Lys Xaa
 35 40 45

<210> 111

<211> 210

<212> PRT

<213> Homo sapiens

<400> 111

Met Ala Ser Leu Leu Gln Gln Ile Glu Ile Glu Arg Ser Leu Tyr Ser
 1 5 10 15

Asp His Glu Leu Arg Ala Leu Asp Glu Asn Gln Arg Leu Ala Lys Lys
 20 25 30

Lys Ala Asp Leu His Asp Glu Glu Asp Glu Gln Asp Ile Leu Leu Ala
 35 40 45

Gln Asp Leu Glu Asp Met Trp Glu Gln Lys Phe Leu Gln Phe Lys Leu
 50 55 60

Gly Ala Arg Ile Thr Glu Ala Asp Glu Lys Asn Asp Arg Thr Ser Leu
 65 70 75 80

Asn Arg Lys Leu Asp Arg Asn Leu Val Leu Leu Val Arg Glu Lys Phe
 85 90 95

Gly Asp Gln Asp Val Trp Ile Leu Pro Gln Ala Glu Trp Gln Pro Gly
 100 105 110

Glu Thr Leu Arg Gly Thr Ala Glu Arg Thr Leu Ala Thr Leu Ser Glu
 115 120 125

Asn Asn Met Glu Ala Lys Phe Leu Gly Asn Ala Pro Cys Gly His Tyr
 130 135 140

Thr Phe Lys Phe Pro Gln Ala Met Arg Thr Glu Ser Asn Leu Gly Ala
 145 150 155 160

Lys Val Phe Phe Phe Lys Ala Leu Leu Leu Thr Gly Asp Phe Ser Gln
 165 170 175

Ala Gly Asn Lys Gly His His Val Trp Val Thr Lys Asp Glu Leu Gly
 180 185 190

Asp Tyr Leu Lys Pro Lys Tyr Leu Ala Gln Val Arg Arg Phe Val Ser
 195 200 205

Asp Leu
 210

<210> 112
 <211> 110
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (110)
 <223> Xaa equals stop translation

<400> 112
 Met Val Leu Thr Gly Val Arg Leu Met Lys Trp Arg Asp Glu Lys Thr
 1 5 10 15

Phe Gly Thr Asp Cys Val Glu Ala Val Ile Leu Leu Val Thr Leu Leu
 20 25 30

Trp Glu Lys Lys Glu Ala Phe His Val Gly Phe Ser Glu Glu Leu Gln
 35 40 45

Tyr Phe Pro Glu Arg Ser Thr Glu Lys Leu Lys Val Phe Glu Trp Glu

| 50 | 55 | 60 |
|---|-----|-----|
| Glu Glu Lys Gln Thr Thr Ala Thr Ser Glu Asp Asn Thr Lys His Leu | | |
| 65 | 70 | 75 |
| Val His Ser Val Tyr Thr Arg Gly Ala Val Asn Phe Leu Val Glu Lys | | |
| 85 | 90 | 95 |
| Glu Leu Ser Leu Glu Lys Tyr Leu Lys Lys Pro Leu Lys Xaa | | |
| 100 | 105 | 110 |
| | | |
| <210> 113 | | |
| <211> 61 | | |
| <212> PRT | | |
| <213> Homo sapiens | | |
| | | |
| <220> | | |
| <221> SITE | | |
| <222> (61) | | |
| <223> Xaa equals stop translation | | |
| | | |
| <400> 113 | | |
| Met Ala Ala Val Met Leu Val Leu Thr Val Val Leu Gly Leu Tyr Asn | | |
| 1 | 5 | 10 |
| 15 | | |
| Ser Tyr Asn Ser Cys Ala Glu Gln Ala Asp Gly Pro Leu Gly Arg Ser | | |
| 20 | 25 | 30 |
| | | |
| Thr Cys Ser Ala Ala Pro Gly Thr Pro Gly Gly Ala Gln Asp Ser Ser | | |
| 35 | 40 | 45 |
| | | |
| Met Ser Ser Leu Gln Ser Ser Arg Lys Pro His Thr Xaa | | |
| 50 | 55 | 60 |
| | | |
| <210> 114 | | |
| <211> 135 | | |
| <212> PRT | | |
| <213> Homo sapiens | | |
| | | |
| <220> | | |
| <221> SITE | | |
| <222> (135) | | |
| <223> Xaa equals stop translation | | |
| | | |
| <400> 114 | | |
| Met Val Glu Asn Ser Pro Ser Pro Leu Pro Glu Arg Ala Ile Tyr Gly | | |
| 1 | 5 | 10 |
| 15 | | |
| Phe Val Leu Phe Leu Ser Ser Gln Phe Gly Phe Ile Leu Tyr Leu Val | | |
| 20 | 25 | 30 |
| | | |
| Trp Ala Phe Ile Pro Glu Ser Trp Leu Asn Ser Leu Gly Leu Thr Tyr | | |
| 35 | 40 | 45 |
| | | |
| Trp Pro Gln Lys Tyr Trp Ala Val Ala Leu Pro Val Tyr Leu Leu Ile | | |
| 50 | 55 | 60 |

Ala Ile Val Ile Gly Tyr Val Leu Leu Phe Gly Ile Asn Met Met Ser
 65 70 75 80

Thr Ser Pro Leu Asp Ser Ile His Thr Ile Thr Asp Asn Tyr Ala Lys
 85 90 95

Asn Gln Gln Gln Lys Lys Tyr Gln Glu Glu Ala Ile Pro Ala Leu Arg
 100 105 110

Asp Ile Ser Ile Ser Glu Val Asn Gln Met Phe Phe Leu Ala Ala Lys
 115 120 125

Glu Leu Tyr Thr Lys Asn Xaa
 130 135

<210> 115

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals stop translation

<400> 115

Met Arg Leu Gln Pro Asp Ile Cys Asn Leu Pro Thr Asn Pro Leu Ser
 1 5 10 15

Leu Lys Leu Gly Leu Met Leu Leu Ser Leu Thr Leu Cys Leu Glu Lys
 20 25 30

Thr Val Gln Gly Leu Lys Leu Gly Leu Cys Leu Phe Lys Leu Ser Phe
 35 40 45

Ser Glu His Met Val Cys Pro Thr His Pro Gln Ser Ile Arg Trp Phe
 50 55 60

Tyr Phe Met Phe Arg Leu Gln Cys Cys Xaa
 65 70

<210> 116

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals stop translation

<400> 116

Met Ala Ala Gly Trp Val Arg Ser Trp Val Val Tyr Phe Leu Val Thr
 1 5 10 15

Leu Leu Gly Ser Ser Pro Ser Pro Val Ser Leu Thr Glu Gly Lys Lys
 20 25 30

Ile Pro Lys Gly Thr Ala Thr Val Leu Gly Gly Ala Leu Asp Cys Val
 35 40 45

His Leu Asn Phe Gly Pro Ser Phe Asp Val Trp Phe Val Ser His Lys
 50 55 60

Glu Lys Tyr Leu Lys Val Asn Met Met Leu Leu Ala Tyr Tyr Pro Asp
 65 70 75 80

Tyr Cys Met Lys Leu Cys Leu Xaa
 85

<210> 117

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals stop translation

<400> 117

Met Leu Tyr Ile Leu Leu Lys Pro Leu Leu Cys Leu Ser Val Asn Cys
 1 5 10 15

Thr Asn Ile Tyr Gln Met Leu Thr Lys Ser Gln Gly Leu Asp Leu Ala
 20 25 30

Leu Gly Arg Asn Xaa
 35

<210> 118

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals stop translation

<400> 118

Met Trp Trp Trp Leu Met Leu Ala Thr Thr Ala Leu Lys Pro Ile Ala
 1 5 10 15

Thr Ser Ser Ser Cys Thr Glu Ala Leu Pro Gly Leu Trp Arg Asp Arg
 20 25 30

His Trp Gly Asp Trp Thr Arg Gly Ser Gly Trp Glu Val Gly Gln Thr
 35 40 45

Trp Gln His Xaa

50

<210> 119
 <211> 43
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals stop translation

<400> 119
 Met Gly Ser Trp Phe Tyr Leu Phe Leu Ala Pro Leu Phe Lys Gly Leu
 1 5 10 15
 Ala Gly Ser Leu Pro Phe Gly Cys Leu Ser Leu Leu Gln Pro Thr Glu
 20 25 30
 Lys Thr Ala Leu Gln Ser Gly Gly Ser Ser Xaa
 35 40

<210> 120
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 120
 Met Gly Pro Lys Ser Gln Thr Glu Arg Thr Ser Ser Leu Met Pro His
 1 5 10 15
 Gln Val Arg Glu Arg Arg Ala His Ile Pro Gln Met Pro Met Asn Thr
 20 25 30

<210> 121
 <211> 46
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals stop translation

<400> 121
 Met Phe Lys Asp Phe Ile Phe Leu Thr Phe Leu Pro Lys Leu Ser Gln
 1 5 10 15
 Phe Val Lys Gly Ser Leu Ile Ser Gly Leu Ser Glu Cys Asp Asn Thr
 20 25 30
 Ser Leu Lys Ala Ile Leu Gly Phe Ser Asn Tyr Ser Gln Xaa

35

40

45

<210> 122
 <211> 178
 <212> PRT
 <213> Homo sapiens

<400> 122
 Met Ala Lys Val Ala Lys Asp Leu Asn Pro Gly Val Lys Lys Met Ser
 1 5 10 15
 Leu Gly Gln Leu Gln Ser Ala Arg Gly Val Ala Cys Leu Gly Cys Lys
 20 25 30
 Gly Thr Cys Ser Gly Phe Glu Pro His Ser Trp Arg Lys Ile Cys Lys
 35 40 45
 Ser Cys Lys Cys Ser Gln Glu Asp His Cys Leu Thr Ser Asp Leu Glu
 50 55 60
 Asp Asp Arg Lys Ile Gly Arg Leu Leu Met Asp Ser Lys Tyr Ser Thr
 65 70 75 80
 Leu Thr Ala Arg Val Lys Gly Gly Asp Gly Ile Arg Ile Tyr Lys Arg
 85 90 95
 Asn Arg Met Ile Met Thr Asn Pro Ile Ala Thr Gly Lys Asp Pro Thr
 100 105 110
 Phe Asp Thr Ile Thr Tyr Glu Trp Ala Pro Pro Gly Val Thr Gln Lys
 115 120 125
 Leu Gly Leu Gln Tyr Met Glu Leu Ile Pro Lys Glu Lys Gln Pro Val
 130 135 140
 Thr Gly Thr Glu Gly Ala Phe Thr Ala Ala Ala Ser Ser Cys Thr Ser
 145 150 155 160
 Ser Pro Ser Met Thr Arg Ile Pro Arg Ala Ala Val Asp Phe Trp Arg
 165 170 175
 Met Ser

<210> 123
 <211> 48
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals stop translation

<400> 123
 Met Gly Ile Met Leu Leu Ser Tyr Ser Asn Gly Thr Val Leu Phe Ile

| | | | |
|---|----|----|----|
| 1 | 5 | 10 | 15 |
| Phe Val Pro Gln Ile Thr Ser Ser Val Leu Ser Val Phe Cys Ile Val | | | |
| 20 | 25 | 30 | |
| Phe Val Gln Asp Ser Leu Gly Phe Ile Ser Val Ile Ser Ala Phe Xaa | | | |
| 35 | 40 | 45 | |

<210> 124
 <211> 68
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (68)
 <223> Xaa equals stop translation

<400> 124
 Met Lys Leu Leu Leu Leu Thr Leu Thr Val Leu Leu Leu Leu Ser Gln
 1 5 10 15

Leu Thr Pro Gly Gly Thr Gln Arg Cys Trp Asn Leu Tyr Gly Lys Cys
 20 25 30

Arg Tyr Arg Cys Ser Lys Lys Glu Arg Val Tyr Val Tyr Cys Ile Asn
 35 40 45

Asn Lys Met Cys Cys Val Lys Pro Lys Tyr Gln Pro Lys Glu Arg Trp
 50 55 60

Trp Pro Phe Xaa
 65

<210> 125
 <211> 75
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (75)
 <223> Xaa equals stop translation

<400> 125
 Met Asp Tyr Ser Arg Ile Ile Glu Arg Leu Leu Lys Leu Ala Val Pro
 1 5 10 15

Asn His Leu Ile Trp Leu Ile Phe Phe Tyr Trp Leu Phe His Ser Cys
 20 25 30

Leu Asn Ala Val Ala Glu Leu Met Gln Phe Gly Asp Arg Glu Phe Tyr
 35 40 45

Arg Asp Trp Trp Asn Ser Glu Ser Val Thr Tyr Phe Trp Gln Asn Trp
 50 55 60

Asn Ile Pro Val His Lys Trp Cys Ile Arg Xaa
 65 70 75

<210> 126

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals stop translation

<400> 126

Met Thr Lys Glu Asp Lys Ala Ser Ser Glu Ser Leu Arg Leu Ile Leu
 1 5 10 15

Val Val Phe Leu Gly Gly Cys Thr Phe Ser Glu Ile Ser Ala Leu Arg
 20 25 30

Phe Leu Gly Arg Glu Lys Gly Tyr Arg Phe Ile Phe Leu Thr Thr Ala
 35 40 45

Val Thr Asn Ser Ala Arg Leu Met Glu Ala Met Ser Glu Val Lys Ala
 50 55 60

Xaa

65

<210> 127

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals stop translation

<400> 127

Met Leu Leu Tyr Tyr Ser Val Met Thr Leu Ser Ser Leu Gly Gln Asp
 1 5 10 15

Pro Ser Leu Pro Thr Phe Ala Asp Arg His Ser Gly Met Trp Arg Gln
 20 25 30

Gln Cys Val Pro Xaa Thr Phe Leu Tyr Pro Pro Ala Val Gly Ser Thr

35

40

45

Gln Trp Lys Gly Asp Met Thr Leu Ile Leu Leu Phe Xaa
 50 55 60

<210> 128
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 128
 Met Ser Lys Arg Phe Thr Leu Asp Tyr Leu Phe Leu Ser Glu Ile Val
 1 5 10 15

Leu Cys Leu Phe Tyr Tyr Leu Leu Leu Ile Arg Ala Leu Ala Leu
 20 25 30

<210> 129
 <211> 22
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (22)
 <223> Xaa equals stop translation

<400> 129
 Met Gln Ile Ile Phe Leu Ala Val Thr Cys Ser Phe Thr Thr Ala Glu
 1 5 10 15

Ser Ala Val Ala Arg Xaa
 20

<210> 130
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals stop translation

<400> 130
 Met Gly Phe Ser His Arg Ser Pro Pro Val Ala His Pro Arg Ala Arg
 1 5 10 15

Asn Arg Arg Ser Gln Glu Val Val Thr Glu Leu Gly Pro Cys Leu Leu
 20 25 30

Leu Cys Thr Leu Leu Val Gln Thr Gly Val Val Gly Ser Gln Ala Leu
 35 40 45

Xaa

<210> 131
 <211> 62
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals stop translation

<400> 131
 Met Val Gly Ser Ala Met Met Gly Gly Ile Leu Leu Ala Leu Ile Glu
 1 5 10 15
 Gly Val Gly Ile Leu Leu Thr Arg Tyr Thr Ala Gln Gln Phe Arg Asn
 20 25 30
 Ala Pro Pro Phe Leu Glu Asp Pro Ser Gln Leu Pro Pro Lys Asp Gly
 35 40 45
 Thr Pro Ala Pro Gly Tyr Pro Ser Tyr Gln Gln Tyr His Xaa
 50 55 60

<210> 132
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 132
 Met Pro Gly Leu Ser Ala Ala Leu Thr Asp Cys Ser Ser Leu Pro His
 1 5 10 15
 Gly Phe Pro Phe Phe Leu Glu Tyr Leu Phe Phe Arg Gly Asn Met Gln
 20 25 30
 Leu Gly Leu Lys Thr Phe Pro Pro Ile Ser Pro Thr Gln Pro Arg Leu
 35 40 45
 Gly Phe Ser Gly Glu Leu Arg Ser Leu Ser Val Phe Ile Phe His Pro
 50 55 60
 Phe Ile Val Thr Ser Phe Val Ile Leu Phe Phe Phe Gly Gly Asp Gly
 65 70 75 80
 Val Ile Val Asn Leu Ile Ser Val Ser Tyr Leu Phe Ala Ser Pro Pro
 85 90 95
 Ser Pro Pro His Glu Leu Leu Pro Ser Arg Gly Leu Ala Gln Leu Ala
 100 105 110
 Leu Gly Thr Arg Glu Arg Thr Asp Ser Gly Pro Pro Gln Leu Ser Pro
 115 120 125
 Pro Ser Leu Trp Lys Gly Gly Trp Gly Ser Gly Ala Ser Ser Trp Ala

130

135

140

Leu Cys Glu Ala Trp Pro Pro Leu Pro Thr Leu Ala Leu Asp Cys Tyr
 145 150 155 160

Ser

<210> 133

<211> 49

<212> PRT

<213> Homo sapiens

<400> 133

Met Gly Gln Ser Phe Ser Leu Tyr Met Ile Phe Gln Ile Phe Thr Thr
 1 5 10 15

Phe Leu Val Pro Leu Asp Ala Arg His Cys Leu Leu Glu Thr His Trp
 20 25 30

Tyr Val Thr Ala Gly Phe Thr Met Glu Pro His Ile His Met Ser Trp
 35 40 45

Asn

<210> 134

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals stop translation

<400> 134

Met Trp Gln His Cys Phe Val Ile Leu Phe Val Gln Val Met His Thr
 1 5 10 15

Val Leu Ile Lys Gly Ser Asn Lys Tyr Trp Gly Leu Phe Phe Phe
 20 25 30

Pro Gln Gly Ile Leu Xaa

35

<210> 135

<211> 77

<212> PRT

<213> Homo sapiens

<400> 135

Met Tyr Thr Phe Ile Cys Thr Trp Leu Trp Arg Asp Lys Leu Ile His
 1 5 10 15

Ile Gly Leu Gln Ile Ser Leu Thr Gly Arg Arg Ala Gln Lys Asn Asn
 20 25 30

Ile Phe Leu His Phe Phe Gly Ser Ile Leu Lys Asn Lys Lys Gly Thr
 35 40 45

Pro Lys Gly Ser Leu Val Thr Pro Leu Leu Gly Phe Leu Ile Thr Asn
 50 55 60

Ile Ile Phe Thr Cys Lys Val Asn Gly Pro Leu Ile Ser
 65 70 75

<210> 136

<211> 31

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals stop translation

<400> 136

Met Glu Gly Leu Met Leu Pro Leu Leu Ser Val Ile Tyr Ser Glu Gly
 1 5 10 15

Thr Val Trp Glu Glu Ile Ile Val Ser Gly Arg Gln Tyr Tyr Xaa
 20 25 30

<210> 137

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals stop translation

<400> 137

Met Cys Gly Val Thr Tyr Ala Trp Tyr Met Pro Leu Leu Leu Lys
 1 5 10 15

Phe Tyr Ser Leu Leu Ala Gln Val Leu Leu Asn Pro Phe Leu Met
 20 25 30

Cys Thr Gly Trp Arg Lys Asn Tyr Ser Gln His Phe Glu Arg Lys Val
 35 40 45

Phe Arg Asn Asn Ile Asn Trp His Tyr Xaa
 50 55

<210> 138

<211> 40

<212> PRT

<213> Homo sapiens

<400> 138

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Phe | Ile | Phe | Arg | Asp | Gly | Leu | Thr | Met | Phe | Ser | Arg | Leu | Val | Ser |
| 1 | | | | | | | | | 10 | | | | | | 15 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Cys | Pro | Gln | Val | Ile | Leu | Pro | Ser | Trp | Pro | Pro | Glu | Ser | Leu |
| | | | | | | | | | 25 | | | | | | 30 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|
| Gly | Gly | Ser | Gly | Arg | Arg | Ile | Ser | | | | | | | | |
| | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|----|
| | | | | | | | | 35 | | | | | | | 40 |
|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|----|

<210> 139

<211> 47

<212> PRT

<213> Homo sapiens

<400> 139

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Trp | Gly | Tyr | Phe | Leu | Gly | Ala | Ser | Val | Leu | Leu | Gln | Asn | Phe |
| 1 | | | | | | | | | | 10 | | | | | 15 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Ser | Ser | Tyr | Leu | Leu | Thr | Pro | Ser | Gly | Lys | Ile | Ile | Glu | Glu | Val |
| | | | | | | | | | 25 | | | | | | 30 |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Val | Val | Lys | Ala | Ser | Val | Asn | Ser | Ile | Ser | Lys | Asn | Phe | Met |
| | | | | | | | | | 40 | | | | | 45 |

<210> 140

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals stop translation

<400> 140

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Gly | Ile | Phe | Ile | Leu | Phe | Met | Thr | Leu | Ala | Ser | Thr | Phe | Asp |
| 1 | | | | | | | | | 10 | | | | | | 15 |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Gln | Arg | Leu | Leu | Asn | Asp | Ser | Gln | Pro | Lys | Asp | His | Ser | Xaa | |
| | | | | | | | | | 25 | | | | | 30 |

<210> 141

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals stop translation

<400> 141

Met Ala Trp Val Thr Ser Tyr Gly Pro Leu Glu Asp Glu Ser Asn Pro
 1 5 10 15

Ser His Trp Phe Phe Ala Asn Ser Phe Ala Phe Ile Phe Leu Ile
 20 25 30

Thr Ile Asn Ser Ile Phe His Val Leu Arg Ala Pro Gly Xaa
 35 40 45

<210> 142

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 142

Met Asn Gln Arg Tyr Arg His Lys Ile Lys Asn Tyr Lys Thr Ile His
 1 5 10 15

Tyr Ala Tyr Asp Ser Cys Asn Asn Lys Lys Val Gln Gly Thr Ile Ile
 20 25 30

Ser Tyr Asn Arg Gly Ile Thr Ser His Arg Glu Gln Gln Tyr His Ile
 35 40 45

Ala Gly Ile Tyr Thr Arg Ile Leu Gly Asn Leu Val Trp Ile Tyr Thr
 50 55 60

Arg Ile Pro Gly Asp Pro Val Trp Leu Val Arg Gly Phe Pro Glu Lys
 65 70 75 80

Xaa Ile Ser Glu Ser
 85

<210> 143

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 143

Met Lys Asn Met His Val Tyr Leu Asn Tyr Asn Asn Phe Leu Leu Xaa
 1 5 10 15

Leu Leu Arg Leu Met Leu Asn Ile Cys Ser Phe Thr Gln Pro Leu Val
 20 25 30

Ala Glu Glu Glu Arg Pro Leu Thr Pro Leu

35

40

<210> 144
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 144
 Met Asp Glu Glu Arg Glu Ile Ile Ser His Gly Glu Phe Cys Asn Val
 1 5 10 15

Ser Arg Glu Arg Asp Trp Val Gly Arg Gln Ala Ser Gln Phe Val Lys
 20 25 30

Cys Lys Gly Thr Thr His Arg Thr Leu Ser Leu Thr Arg Ala Val Ser
 35 40 45

Tyr Val Val Leu Ser Pro Leu Ala Lys Asp Leu Pro Leu Leu Ala Ser
 50 55 60

Asp
 65

<210> 145
 <211> 312
 <212> PRT
 <213> Homo sapiens

<400> 145
 Met Ala Ala Gly Val Asp Cys Gly Asp Gly Val Gly Ala Arg Gln His
 1 5 10 15

Val Phe Leu Val Ser Glu Tyr Leu Lys Asp Ala Ser Lys Lys Met Lys
 20 25 30

Asn Gly Leu Met Phe Val Lys Leu Val Asn Pro Cys Ser Gly Glu Gly
 35 40 45

Ala Ile Tyr Leu Phe Asn Met Cys Leu Gln Gln Leu Phe Glu Val Lys
 50 55 60

Val Phe Lys Glu Lys His His Ser Trp Phe Ile Asn Gln Ser Val Gln
 65 70 75 80

Ser Gly Gly Leu Leu His Phe Ala Thr Pro Val Asp Pro Leu Phe Leu
 85 90 95

Leu Leu His Tyr Leu Ile Lys Ala Asp Lys Glu Gly Lys Phe Gln Pro
 100 105 110

Leu Asp Gln Val Val Val Asp Asn Val Phe Pro Asn Cys Ile Leu Leu
 115 120 125

Leu Lys Leu Pro Gly Leu Glu Lys Leu Leu His His Val Thr Glu Glu
 130 135 140

Lys Gly Asn Pro Glu Ile Asp Asn Lys Lys Tyr Tyr Lys Tyr Ser Lys
 145 150 155 160

Glu Lys Thr Leu Lys Trp Leu Glu Lys Lys Val Asn Gln Thr Val Ala
 165 170 175

Ala Leu Lys Thr Asn Asn Val Asn Val Ser Ser Arg Val Gln Ser Thr
 180 185 190

Ala Phe Phe Ser Gly Asp Gln Ala Ser Thr Asp Lys Glu Glu Asp Tyr
 195 200 205

Ile Arg Tyr Ala His Gly Leu Ile Ser Asp Tyr Ile Pro Lys Glu Leu
 210 215 220

Ser Asp Asp Leu Ser Lys Tyr Leu Lys Leu Pro Glu Pro Ser Ala Ser
 225 230 235 240

Leu Pro Asn Pro Pro Ser Lys Lys Ile Lys Leu Ser Asp Glu Pro Val
 245 250 255

Glu Ala Lys Glu Asp Tyr Thr Lys Phe Asn Thr Lys Asp Leu Lys Thr
 260 265 270

Glu Lys Lys Asn Ser Lys Met Thr Ala Ala Gln Lys Ala Leu Ala Lys
 275 280 285

Val Asp Lys Ser Gly Met Lys Ser Ile Asp Thr Phe Phe Gly Val Lys
 290 295 300

Asn Lys Lys Lys Ile Gly Lys Val
 305 310

<210> 146
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 146
 Met Asp Lys Asn Val Thr Arg Ser Arg Thr Ile Lys Leu Val Gln Ala
 1 5 10 15

Ser Trp Thr Pro Pro Phe Gln Leu Pro Ala Phe Cys Leu Met Pro Val
 20 25 30

Cys Gln Trp Leu Glu Leu Gly Leu Leu Phe Arg Thr Ser Val Ala Ile
 35 40 45

Leu Ile Leu Pro Trp Gly His Asn Cys Pro
 50 55

<210> 147
 <211> 63
 <212> PRT
 <213> Homo sapiens

<210> 148

<211> 85

<212> PRT

<213> *Homo sapiens*

<220>

<221> SITE

<222> (85)

<223> Xaa equals stop translation

<400> 148

Met Tyr Leu Ile His Leu Tyr Gln Val Leu Lys Tyr Leu Asp Lys Ser
1 5 10 15

Lys Tyr Phe Val Phe Ser Phe Phe Leu Leu Ser Ile Leu Leu Thr Thr
20 25 30

Val Lys Arg Cys Ser Ile Leu Ile Trp Ser Val Leu Arg Arg Lys Thr
 35 40 45

Met Lys Ala Glu Leu Val Cys Ala Thr Gln Ser Lys Pro Leu Leu Phe
50 55 . 60

Phe Trp Lys Asp Gly Val Met Phe Phe Lys Asp Ser Asn Lys Tyr Pro
65 70 75 80

Ala Val Ile Ser Xaa
85

<210> 149

<211> 26

<212> PRT

<213> *Homo sapiens*

<220>

<221> SITE

<222> (26)

<223> Xaa equals stop translation

<400> 149

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Thr | Ser | Tyr | Ile | Ile | Asn | Leu | Ser | Phe | Phe | Leu | Pro | Leu | Ala | Thr |
| 1 | | | | | | | | | 10 | | | | | | 15 |

Arg Lys Val Ser Ala Lys Pro Cys Gly Xaa
 20 25

<210> 150

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals stop translation

<400> 150

Met Leu Pro Leu Met Thr Tyr Ile Ile Gln Tyr Ile Tyr Thr Tyr Ile
 1 5 10 15

Xaa Xaa Val Arg Val Leu Ala Ile Leu Phe Leu Arg Arg Val Leu Ser
 20 25 30

Gln Thr Leu Leu His Ala Val Tyr Gly Val Ser Cys Val Leu Ile Phe
 35 40 45

Xaa

<210> 151

<211> 63

<212> PRT

<213> Homo sapiens

<400> 151

Met Val Cys Gly Val Phe Cys Cys Leu Pro Leu Glu Val Leu Pro Phe
 1 5 10 15

Ser Arg Pro Ile Asn Val Leu Trp Leu Leu Asn Tyr Ser Ser Thr Leu
 20 25 30

Gln Cys Thr Gly Phe Pro Pro Gly Val Asn Thr Asn Gly Gly His Leu
 35 40 45

Leu Val Phe Leu Glu Val Leu Gly Glu Phe Ser Asp Leu Trp Leu
 50 55 60

<210> 152

<211> 34
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals stop translation

<400> 152
 Met Ser Ser Gly Leu Phe Leu Val Leu Phe Cys Phe Leu Cys Val Phe
 1 5 10 15
 Val Gly Phe Phe Asp Phe His Cys Trp Cys Asp Ile Leu Val Lys Ser
 20 25 30

Ser Xaa

<210> 153
 <211> 211
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (127)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (211)
 <223> Xaa equals stop translation

<400> 153
 Met Arg Cys Leu Thr Thr Pro Met Leu Leu Arg Ala Leu Ala Gln Ala
 1 5 10 15
 Ala Arg Ala Gly Pro Pro Gly Gly Arg Ser Leu His Ser Ser Ala Val
 20 25 30

Ala Ala Thr Tyr Lys Tyr Val Asn Met Gln Asp Pro Glu Met Asp Met
 35 40 45
 Lys Ser Val Thr Asp Arg Ala Ala Arg Thr Leu Leu Trp Thr Glu Leu
 50 55 60

Phe Arg Gly Leu Gly Met Thr Leu Ser Tyr Leu Phe Arg Glu Pro Ala
 65 70 75 80

Thr Ile Asn Tyr Pro Phe Glu Lys Gly Pro Leu Ser Pro Arg Phe Arg
 85 90 95

Gly Glu His Ala Leu Arg Arg Tyr Pro Ser Gly Glu Glu Arg Cys Ile
 100 105 110

Ala Cys Lys Leu Cys Glu Ala Ile Cys Pro Ala Gln Ala Ile Xaa Ile

| | | |
|---|-----|-----|
| 115 | 120 | 125 |
| Glu Ala Glu Pro Arg Ala Asp Gly Ser Arg Arg Thr Thr Arg Tyr Asp | | |
| 130 | 135 | 140 |
| Ile Asp Met Thr Lys Cys Ile Tyr Cys Gly Phe Cys Gln Glu Ala Cys | | |
| 145 | 150 | 155 |
| 160 | | |
| Pro Val Asp Ala Ile Val Glu Gly Pro Asn Phe Glu Phe Ser Thr Glu | | |
| 165 | 170 | 175 |
| Thr His Glu Glu Leu Leu Tyr Asn Lys Glu Lys Leu Leu Asn Asn Gly | | |
| 180 | 185 | 190 |
| Asp Lys Trp Glu Ala Glu Ile Ala Ala Asn Ile Gln Ala Asp Tyr Leu | | |
| 195 | 200 | 205 |
| Tyr Arg Xaa | | |
| 210 | | |
| <210> 154 | | |
| <211> 115 | | |
| <212> PRT | | |
| <213> Homo sapiens | | |
| <220> | | |
| <221> SITE | | |
| <222> (77) | | |
| <223> Xaa equals any of the naturally occurring L-amino acids | | |
| <220> | | |
| <221> SITE | | |
| <222> (115) | | |
| <223> Xaa equals stop translation | | |
| <400> 154 | | |
| Met Leu Pro Gly Leu Arg Arg Leu Leu Gln Ala Pro Ala Ser Ala Cys | | |
| 1 | 5 | 10 |
| 15 | | |
| Leu Leu Leu Met Leu Leu Ala Leu Pro Leu Ala Ala Pro Ser Cys Pro | | |
| 20 | 25 | 30 |
| Met Leu Cys Thr Cys Tyr Ser Ser Pro Pro Thr Val Lys Leu Pro Gly | | |
| 35 | 40 | 45 |
| Gln Gln Leu Leu Leu Cys Ala Ala Val Pro Ala Thr Gln His Ser Ala | | |
| 50 | 55 | 60 |
| Thr Leu Pro Ala Glu Gln Pro His Pro His Ala Ala Xaa Arg His Leu | | |
| 65 | 70 | 75 |
| 80 | | |
| Trp Val Gln Pro Ala His Pro Val Ala Leu Leu Gln Gln Pro Leu His | | |
| 85 | 90 | 95 |
| His Leu Pro Gly His Phe Pro Pro Leu Ala Ser Pro Gly Gly Ser Gly | | |
| 100 | 105 | 110 |

Pro Arg Xaa
115

<210> 155
<211> 227
<212> PRT
<213> Homo sapiens

<400> 155
Met Asp Phe Glu Asn Leu Phe Ser Lys Pro Pro Asn Pro Ala Leu Gly
1 5 10 15

Lys Thr Ala Thr Asp Ser Asp Glu Arg Ile Asp Asp Glu Ile Asp Thr
20 25 30

Glu Val Glu Glu Thr Gln Glu Glu Lys Ile Lys Leu Glu Cys Glu Gln
35 40 45

Ile Pro Lys Lys Phe Arg His Ser Ala Ile Ser Pro Lys Ser Ser Leu
50 55 60

His Arg Lys Ser Arg Ser Lys Asp Tyr Asp Val Tyr Ser Asp Asn Asp
65 70 75 80

Ile Cys Ser Gln Glu Ser Glu Asp Asn Phe Ala Lys Glu Leu Gln Gln
85 90 95

Tyr Ile Gln Ala Arg Glu Met Ala Asn Ala Ala Gln Pro Glu Glu Ser
100 105 110

Thr Lys Lys Glu Gly Val Lys Asp Thr Pro Gln Ala Ala Lys Gln Lys
115 120 125

Asn Lys Asn Leu Lys Ala Gly His Lys Asn Gly Lys Gln Lys Lys Met
130 135 140

Lys Arg Lys Trp Pro Gly Pro Gly Asn Lys Gly Ser Asn Ala Leu Leu
145 150 155 160

Arg Asn Ser Gly Ser Gln Glu Glu Asp Gly Lys Pro Lys Glu Lys Gln
165 170 175

Gln His Leu Ser Gln Ala Phe Ile Asn Gln His Thr Val Glu Arg Lys
180 185 190

Gly Lys Gln Ile Cys Lys Tyr Phe Leu Glu Arg Lys Cys Ile Lys Gly
195 200 205

Asp Gln Cys Lys Phe Asp His Asp Ala Glu Ile Glu Lys Lys Lys Lys
210 215 220

Lys Thr Arg
225

<210> 156
<211> 114

<212> PRT

<213> Homo sapiens

<400> 156

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | His | Gln | Val | Ser | Thr | Cys | Phe | Gly | Pro | Gly | Arg | Gly | Leu | Ala | Leu |
| 1 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 10 | | 15 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Phe | Met | Thr | Leu | His | Ser | Phe | Arg | Glu | Ala | Ile | Thr | Leu | Asp | Cys |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 20 | 25 | 30 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Thr | Asn | Asp | Arg | Arg | Pro | Ser | Gly | Gln | Arg | Pro | Pro | Arg | Pro | Ser |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 35 | 40 | 45 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Pro | Gln | Arg | Arg | Gly | Pro | Arg | Gly | Arg | Arg | Cys | Pro | Ser | Cys | Ser |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 50 | 55 | 60 |

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Pro | Cys | Ala | Leu | Ser | Leu | Thr | Ser | Pro | Gly | Ser | Cys | Leu | Leu | Lys | Thr | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 65 | 70 | 75 | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Val | Phe | Thr | Pro | Tyr | Lys | Ala | Ser | Ser | Glu | Gln | Thr | Gly | Arg | Pro |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 85 | 90 | 95 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Val | Glu | Pro | Ala | His | Pro | Val | Pro | Ser | Ala | Trp | Arg | Pro | Gly | Pro |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 100 | 105 | 110 |

Arg Ala

<210> 157

<211> 46

<212> PRT

<213> Homo sapiens

<400> 157

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Arg | Thr | Asn | Thr | Trp | Val | Ser | Trp | Gln | Ala | Ser | Arg | Ala | Asp |
| 1 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 10 | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Pro | Glu | Thr | Asp | Pro | Gln | Glu | Ala | Leu | Gln | Pro | Ala | Leu | Val | Pro |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 20 | 25 | 30 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| Ser | His | Ser | Asp | Leu | Asn | Pro | Gly | Ser | Ser | Arg | Ser | Ala | Val | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 35 | 40 | 45 |

<210> 158

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals stop translation

<400> 158

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Phe | Gln | Cys | Gln | Val | Leu | Leu | Ser | Ile | Phe | Ser | Phe | Leu | Glu |
| 1 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 5 | 10 | 15 |

Pro Val Leu Ser Ser Gly Ser Ser Arg Leu Val Phe Tyr Asn Leu Ser
 20 25 30

Asn Ile Met Xaa
 35

<210> 159
 <211> 38
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals stop translation

<400> 159
 Met Val Phe Ser Ala Lys Ile Gly Val Arg Tyr Phe Leu Val Leu Ser
 1 5 10 15

Cys Leu Pro Asn Cys Cys Leu Pro Ala Asp Trp Trp His Ala Gln Trp
 20 25 30

Leu Trp Gly Gln Gly Xaa
 35

<210> 160
 <211> 30
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals stop translation

<400> 160
 Met Tyr Phe Ser Leu Leu Val Leu Leu Phe Ser Pro Ser Val Leu Phe
 1 5 10 15

Leu Ala Arg Lys Lys Cys Thr Arg Asn Asn Thr Leu Asn Xaa
 20 25 30

<210> 161
 <211> 56
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (56)
 <223> Xaa equals stop translation

<400> 161

Met Val Lys Leu Ser Lys Glu Ala Lys Gln Arg Leu Gln Gln Leu Phe
 1 5 10 15

Lys Gly Ser Gln Phe Ala Ile Arg Trp Gly Phe Ile Pro Leu Val Ile
 20 25 30

Tyr Leu Gly Phe Lys Arg Gly Ala Asp Pro Gly Met Pro Glu Pro Thr
 35 40 45

Val Leu Ser Leu Leu Trp Gly Xaa
 50 55

<210> 162
 <211> 70
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals stop translation

<400> 162
 Met Leu Gly Phe Ala Phe Arg Asp Lys Arg Trp Trp Ile Tyr Phe Ala
 1 5 10 15

Cys Ser Lys Asp Ser Gln Gly Val Arg Ala Ala Tyr Cys Gln Ile Leu
 20 25 30

Leu Leu Phe Tyr Val Ser Val Tyr Ser Leu Ser Phe Ser Tyr Leu Leu
 35 40 45

Asp His Phe Cys Ser Leu Pro Lys Pro Leu Leu Phe Gly Thr Val Ser
 50 55 60

Gln Ile Pro His Phe Xaa
 65 70

<210> 163
 <211> 52
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (52)
 <223> Xaa equals stop translation

<400> 163
 Met Cys Ser Tyr Cys Met Pro Tyr Leu Ile Ile Phe Leu Ser Val Ile
 1 5 10 15

His Asn His Lys Thr Ile Pro Leu Leu Lys Val Leu Val Asp Lys Leu
 20 25 30

Asn Cys Ile Ile Thr Asp Leu Cys Ile Ser Arg Asp Asp Val Phe Pro

35

40

45

Thr Thr Cys Xaa
50

<210> 164
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals stop translation

<400> 164
Met Cys Ala Asp Asp Leu Leu Ser Val Leu Leu Tyr Leu Leu Val Lys
1 5 10 15

Thr Glu Ile Pro Asn Trp Met Ala Asn Leu Ser Tyr Ile Lys Asn Phe
20 25 30

Arg Phe Ser Ser Leu Ala Lys Asp Glu Leu Gly Ile Leu Pro Asp Leu
35 40 45

Ile Arg Xaa Cys Pro Leu Asn Ile Arg Gln Gly Ser Leu Ser Ala Lys
50 55 60

Pro Pro Glu Ser Glu Gly Phe Gly Asp Arg Leu Phe Leu Lys Gln Arg
65 70 75 80

Met Ser Leu Leu Ser Gln Met Thr Ser Ser Pro Thr Asp Cys Leu Phe
85 90 95

Lys Ala Asp Ala Leu Leu Glu Xaa
100

<210> 165
<211> 76
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals stop translation

<400> 165
Met Ala Arg Ile Thr Gly Pro Pro Glu Arg Asp Asp Pro Tyr Pro Val
1 5 10 15

Leu Phe Arg Tyr Leu His Ser His His Phe Leu Glu Leu Val Thr Leu
 20 25 30

Leu Leu Ser Ile Pro Val Thr Ser Ala His Pro Gly Val Leu Gln Ala
 35 40 45

Thr Lys Asp Val Leu Lys Phe Leu Ala Gln Ser Gln Lys Gly Leu Leu
 50 55 60

Phe Phe Met Ser Glu Tyr Glu Ala Thr Ile Tyr Xaa
 65 70 75

<210> 166

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals stop translation

<400> 166

Met Lys Gln Thr Arg Leu Asn Pro Pro Val Val Phe Ile Leu Leu Gln
 1 5 10 15

Pro Leu Ser Arg Pro Arg Asp Gly Leu Ser Asn Ser Val Leu Ile Ile
 20 25 30

Leu His Ser Val Pro Xaa

35

<210> 167

<211> 272

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 167

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Ala | Leu | Arg | Arg | Ser | Gly | Tyr | Gly | Pro | Ser | Asp | Gly | Pro | Ser |
| 1 | | | | | | | | | | 10 | | | | 15 | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Gly | Arg | Tyr | Tyr | Gly | Pro | Gly | Gly | Asp | Val | Pro | Val | His | Pro |
| | | | 20 | | | | 25 | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Pro | Leu | Tyr | Pro | Leu | Arg | Pro | Glu | Pro | Pro | Gln | Pro | Pro | Ile |
| | | | | | | | | 35 | | | 40 | | 45 | | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Trp | Arg | Val | Arg | Gly | Gly | Pro | Ala | Glu | Thr | Thr | Trp | Leu | Gly |
| | | | | | | | 50 | | | 55 | | 60 | | |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gly | Gly | Gly | Asp | Gly | Tyr | Tyr | Pro | Ser | Gly | Gly | Ala | Trp | Pro |
| 65 | | | | 70 | | | | 75 | | | | 80 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Pro | Gly | Arg | Ala | Gly | Gly | Ser | His | Gln | Ser | Leu | Asn | Ser | Tyr | Thr |
| | | | | | | | 85 | | 90 | | | 95 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Gly | Ala | Tyr | Gly | Pro | Thr | Tyr | Pro | Pro | Gly | Pro | Gly | Ala | Asn | Thr |
| | | | | | | 100 | | 105 | | | 110 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Phe | Ile | Leu | Arg | Gly | Leu | Xaa | Cys | Thr | Trp | Leu | Tyr | Ser | Asp | Gln |
| | | | | | | 115 | | 120 | | | 125 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | His | Arg | Ile | Pro | Ser | Thr | Tyr | Arg | Ser | Ser | Gly | Asn | Ser | Pro |
| | | | | | | 130 | | 135 | | | 140 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Pro | Val | Ser | Arg | Trp | Ile | Tyr | Pro | Gln | Gln | Asp | Cys | Gln | Thr | Glu |
| 145 | | | | | | 150 | | | 155 | | | 160 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Xaa | Pro | Leu | Arg | Gly | Lys | Val | Pro | Gly | Tyr | Pro | Pro | Ser | Xaa | Xaa |
| | | | | | | 165 | | | 170 | | | 175 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Gly | Met | Xaa | Leu | Pro | His | Tyr | Pro | Tyr | Gly | Asp | Gly | Asn | Arg | Ser |
| | | | | | | | 180 | | 185 | | | 190 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Pro | Gln | Ser | Gly | Pro | Thr | Val | Arg | Pro | Gln | Glu | Asp | Ala | Trp | Ala |
| | | | | | | 195 | | 200 | | | 205 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Gly | Ala | Tyr | Gly | Met | Gly | Gly | Arg | Tyr | Pro | Trp | Pro | Ser | Ser |
| | | | | | | 210 | | 215 | | | 220 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Pro | Ser | Ala | Pro | Pro | Gly | Asn | Leu | Tyr | Met | Thr | Glu | Val | Leu | His |
| 225 | | | | | | | | 230 | | 235 | | | 240 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Gly | Leu | Ala | Val | Ala | Leu | Pro | Ser | His | Pro | Leu | His | Pro | Gln | Ser |
| | | | | | | | 245 | | 250 | | | 255 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Pro | Arg | Ile | Leu | His | Thr | Pro | Ile | Ala | Asn | Gln | Ile | Lys | Ala |
| | | | | | | | 260 | | 265 | | | 270 | | | |

<210> 168

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals stop translation

<400> 168

Met Ile Leu Thr Phe Cys Val Phe Leu Leu Phe Ser Phe His Asn Ala
 1 5 10 15

Ile Lys Ser Thr Pro Phe Leu Lys Phe Xaa
 20 25

<210> 169

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals stop translation

<400> 169

Met Lys Leu Ile Tyr Tyr Cys His Leu Val Asp Ile Leu Leu Leu Gln
 1 5 10 15

Ala Ile Ile Lys Xaa Asn Ala Gly Met Xaa
 20 25

<210> 170

<211> 132

<212> PRT

<213> Homo sapiens

<400> 170

Met Ile Glu Cys Pro Asp Trp Ala Arg Thr Ala Ser Leu Ala Lys Gln
 1 5 10 15

Arg Arg Lys Val Phe Lys Gln Met Leu Ser Ser Phe Leu His Phe His
 20 25 30

Phe Asn Ser Met Met Pro Leu Cys Pro Ser Asp Asp Ile Ser Pro Gly

35

40

45

Val Trp Asp Ser Ala Gly Leu Pro Cys Leu Leu Arg Arg Leu Pro Gly
 50 55 60

His His Gln Ala Gly Lys Pro Gln Ser Pro Pro Ser Ser Thr Trp Asp
 65 70 75 80

Pro Trp Ala Ser Ser Ile Ser Leu Thr Arg Lys Pro Val Leu Leu
 85 90 95

Ile Leu Gly Pro His Pro Arg Pro Ile Gln Arg Lys Thr Pro Gly Ala
 100 105 110

Ala Leu Gly Ser Leu Cys Phe His Gln Ile Cys Val Lys Thr Gln Met
 115 120 125

Asn Gln Pro Arg
 130

<210> 171

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals stop translation

<400> 171

Met Arg Ala Thr Ile Val Arg Pro Tyr Cys Gln Glu Gly Gly Phe Trp
 1 5 10 15

Leu Leu Ala Leu Val Tyr Lys Gly Ala Arg Ala Ala Pro Leu Asp Tyr
 20 25 30

Ser Trp Glu Asp Ser Asp Ala Gly Arg Leu Leu Leu Pro Trp Val Thr
 35 40 45

Ser Ser Leu Leu Ala Asp Ile Trp Gly Phe Asp Pro Phe Phe Phe Asn
 50 55 60

Leu Leu Leu Leu Arg Cys Ile Xaa
 65 70

<210> 172

<211> 75

<212> PRT

<213> Homo sapiens

<400> 172

Met Phe Tyr Val Tyr Asp His Ser Met Tyr Val Asp Thr His Thr His
 1 5 10 15

Thr His Val Pro Ser Leu Tyr Thr Asn Gly Asn Ile Leu Lys Ile Leu

20

25

30

Phe Cys Thr Phe Thr Val Gln Val Pro Tyr Ser Pro Leu Ser Thr Trp
 35 40 45

Gln Arg Pro Lys Pro Val Lys Gly Arg Val Ser Thr Trp Pro Pro Ser
 50 55 60

Ser Met Ser Ser Ala Arg Ser Pro Gln Gly Pro
 65 70 75

<210> 173

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals stop translation

<400> 173

Met Ala Leu Leu Val Leu Thr Leu Tyr Cys Ile Leu Phe Leu Lys Ile
 1 5 10 15

Tyr Met Pro Val Pro Ser His Cys Glu Gln Phe Lys Gly Arg Asn Xaa
 20 25 30

<210> 174

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals stop translation

<400> 174

Met Gln Asn Asp Gly Leu Lys Phe Met Glu Met Val Leu His Val Leu
 1 5 10 15

Gln Ala Ser Ile Gly Val Leu Leu Leu Met Val Asp Val Leu Glu His
 20 25 30

Phe Leu Ala Met Leu Ile Gly Asn Ala Gly Ala Pro Leu Pro Leu Leu
 35 40 45

Asp Val Leu Gly Lys Asp Val Ile Asp Val Ala Glu Arg Arg Glu Ser
 50 55 60

Lys Lys Xaa

65

<210> 175

<211> 128

<212> PRT

<213> Homo sapiens

<400> 175

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gln | Trp | Gly | Glu | Gly | Ala | Gly | Pro | Ser | Trp | Val | Tyr | Ile | Leu | Ser |
| 1 | | | | | | | | | | | | | | | 15 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Asp | Ser | Arg | Ala | Ser | Leu | Cys | Met | Cys | Ala | Ala | Ser | Arg | Tyr | Leu |
| | | | | | | | | | | | | | | | 30 |
| 20 | | | | | | | | 25 | | | | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Thr | Gly | Thr | Asp | Pro | Pro | Thr | Arg | Gly | Asp | Thr | Ser | Thr | Pro | His |
| | | | | | | | | | | | | | | | |
| 35 | | | | | | | 40 | | | | | | | | 45 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ala | Ile | Leu | Pro | Leu | Asp | Pro | Cys | Pro | Gln | Ile | Ser | Arg | Tyr | Ala |
| | | | | | | | | | | | | | | | |
| 50 | | | | | | | 55 | | | | | 60 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Ala | Glu | Phe | Leu | Gln | Pro | Gly | Gly | Ser | Thr | Ser | Ser | Arg | Ala | Ala |
| | | | | | | | | | | | | | | | |
| 65 | | | | | | 70 | | | | 75 | | | | | 80 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Thr | Ala | Val | Glu | Leu | Gln | Leu | Leu | Phe | Pro | Leu | Val | Arg | Val | Asn |
| | | | | | | | | | | | | | | | |
| 85 | | | | | | | 90 | | | | | | 95 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Glu | Leu | Gly | Val | Ile | Met | Val | Ile | Ala | Val | Ser | Cys | Val | Lys | Leu |
| | | | | | | | | | | | | | | | |
| 100 | | | | | | | 105 | | | | | | 110 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Ala | His | Asn | Ser | Thr | Gln | His | Thr | Ser | Arg | Lys | His | Lys | Val |
| | | | | | | | | | | | | | | | |
| 115 | | | | | | 120 | | | | | | 125 | | | |

<210> 176

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals stop translation

<400> 176

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gly | Ser | Val | Trp | Asn | Cys | Leu | Leu | Ala | Leu | Leu | Glu | Lys | His | Leu |
| 1 | | | | | | | | | | | | | | | 15 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Thr | Leu | Tyr | Lys | Leu | Ile | Ile | Thr | Val | Leu | Leu | Asp | Leu | Leu | Ser |
| | | | | | | | | | | | | | | | |
| 20 | | | | | | | 25 | | | | | | | | 30 |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Ala | Arg | His | Lys | Cys | Phe | Thr | Ser | Val | Asn | Ser | Phe | Asn | Xaa | |
| | | | | | | | | | | | | | | |
| 35 | | | | | | | 40 | | | | | | | 45 |

<210> 177

<211> 42
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (42)
 <223> Xaa equals stop translation

<400> 177
 Met Asn Ser Thr Cys Gly Phe Val Thr Ser Ile Asn Gln Ile Phe Leu
 1 5 10 15

 Ile Ile Leu Trp Xaa Leu Tyr Leu Pro Leu Leu Thr Thr Thr Leu Glu
 20 25 30

 Ile Trp Glu Leu Leu Xaa Leu Leu His Xaa
 35 40

<210> 178
 <211> 73
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (73)
 <223> Xaa equals stop translation

 <400> 178
 Met Cys Gly Gly His Ala Ile Asn Val Gly Pro Phe Thr Val Ala Gly
 1 5 10 15

Arg Gly Arg Asn Leu Gln Phe Leu Arg Val Leu Leu Leu Arg Cys Pro
 20 25 30

 Pro Val Leu Gly His Ser Cys Ser Xaa Pro Cys Pro Ala Trp Ser His
 35 40 45

 Pro Pro Ser Ala Asn Arg Ser Leu Gly Arg Val Leu Trp Ala Leu Ile
 50 55 60

Arg Pro Trp Gln Gly Arg Ser Ser Xaa
 65 70

<210> 179
 <211> 31
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (31)
 <223> Xaa equals stop translation

<400> 179
 Met Val Leu Pro Arg Ile Leu Val Leu Met Leu Phe Leu Ala Leu Lys
 1 5 10 15

Asn Pro Val Gly Glu Met Arg Asn Leu Thr His Cys Arg Cys Xaa
 20 25 30

<210> 180
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 180
 Met Asp Thr Arg Gly Val Val Leu Arg Ser Gly Glu Phe Asn Arg Gln
 1 5 10 15

Glu Gly Arg Glu Lys Thr Glu Gly Arg Ser Ser Ser Ile Trp Arg Gln
 20 25 30

Arg Glu Gly Gly Ser Lys Ala Lys Arg Gly Gly Pro Gln Val Gln Trp
 35 40 45

Thr Pro Ala Lys Tyr Ile Cys Arg Gly Trp Lys Gly Arg Cys Leu Ile
 50 55 60

Tyr Ile Gly Leu Arg Gly Leu Val
 65 70

<210> 181
 <211> 55
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals stop translation

<400> 181

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | His | Ile | Phe | Val | Ser | Gly | Asn | Phe | Ser | Leu | Leu | Ala | Leu | Phe |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Ser | Ala | Asn | Phe | Ile | Val | Glu | Val | Gln | Ser | Trp | Leu | Leu | Leu |
| | | | | | 20 | | | 25 | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Phe | Phe | Ile | Xaa | Leu | Gly | Arg | Ser | Tyr | Asn | Phe | Tyr | Leu | Leu |
| | | | | | 35 | | | 40 | | | 45 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|--|----|--|--|--|--|--|--|--|
| Cys | Asp | Ser | Ile | Ile | Phe | Xaa | | | | | | | | | |
| | | | | | 50 | | | 55 | | | | | | | |

<210> 182

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals stop translation

<400> 182

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | His | Asn | Leu | Ile | Ser | Ser | Ile | Ile | Ser | Phe | Leu | Tyr | Asn | Phe | Cys |
| 1 | | | | | 5 | | | | 10 | | | 15 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Pro | Leu | Ala | Ser | Pro | Gln | Phe | Thr | Asn | Glu | Glu | Ser | Ser | Tyr |
| | | | | | 20 | | | 25 | | | 30 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Leu | Arg | Ser | Cys | Thr | Arg | Gly | Gly | Phe | Glu | Ser | Arg | Ser | Leu |
| | | | | | 35 | | | 40 | | | 45 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Gln | Lys | Ser | Cys | Thr | Phe | Gln | Gly | Lys | Gly | Asp | Tyr | His | Val |
| | | | | | 50 | | | 55 | | | 60 | | | | |

Thr Ala Xaa

65

<210> 183

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals stop translation

<400> 183

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Thr | Thr | Leu | Phe | Glu | Thr | Asp | Arg | Cys | Leu | Leu | Phe | Leu | Val | Met |
| 1 | | | | | 5 | | | | 10 | | | 15 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Arg | Phe | Gly | Phe | Lys | Ser | Arg | Leu | Glu | Ala | Thr | Ser | Cys | Lys | Gln |
| | | | | | 20 | | | 25 | | | 30 | | | | |

Val Gln Glu Asn Glu Thr Arg Arg Val Gly Asp Thr Arg Met Lys Thr
 35 40 45

Ser Val Arg Val Lys Thr Lys Gln Thr Met Tyr Ile Ile Cys Ile Trp
 50 55 60

Glu Lys Lys Glu Arg Asn Tyr Leu Thr Xaa
 65 70

<210> 184
 <211> 45
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals stop translation

<400> 184
 Met Val Ser Asp Ile Ser Gly Gln Lys Gln Ser Leu Glu Ala Val Lys
 1 5 10 15

Glu His Leu Leu Phe Ile Trp Leu Pro Val Tyr Lys Ser Thr His Glu
 20 25 30

Gly Pro Asn Ser Lys Ile Ser Asn Tyr Gln Val Leu Xaa
 35 40 45

<210> 185
 <211> 98
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (98)
 <223> Xaa equals stop translation

<400> 185
 Met Arg Pro Leu Leu Cys Ala Leu Thr Gly Leu Ala Leu Leu Arg Ala
 1 5 10 15

Ala Gly Ser Leu Ala Ala Ala Glu Pro Phe Ser Pro Pro Arg Gly Asp
 20 25 30

Ser Ala Gln Ser Thr Ala Cys Asp Arg His Met Ala Val Gln Arg Arg
 35 40 45

Leu Asp Val Met Glu Glu Met Val Glu Lys Thr Val Asp His Leu Gly
 50 55 60

Thr Glu Val Lys Gly Leu Leu Gly Leu Leu Glu Glu Leu Ala Trp Asn
 65 70 75 80

Leu Pro Pro Gly Pro Phe Ser Pro Ala Pro Asp Leu Leu Gly Asp Gly
 85 90 95

Phe Xaa

<210> 186

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals stop translation

<400> 186

Met Ala Ser Leu Leu Asp Asn Phe Ile Leu Asn Ile Ile Val Ile Phe
 1 5 10 15

Cys Ile Val Ile Asp Ser Tyr Leu Cys Gly Phe Met Tyr Phe Phe Val
 20 25 30

Ile Asp Ser Pro Val Pro Ala Cys Ser Pro Leu Gln Leu Ser Gln Thr
 35 40 45

Leu Ile Leu Gln Leu Gln Pro Thr Ala Arg Tyr Phe His Xaa
 50 55 60

<210> 187

<211> 40

<212> PRT

<213> Homo sapiens

<400> 187

Met Cys Ile Phe Glu Cys Met Cys His Phe Phe Ile Asp Ile Ser Asn
 1 5 10 15

His Tyr Tyr Val Val Arg Phe Tyr Pro Glu Asp Ser Leu Pro Lys Thr
 20 25 30

Phe Ile Tyr Asp Pro Phe Lys Ala
 35 40

<210> 188

<211> 153

<212> PRT

<213> Homo sapiens

<400> 188

Met Cys Glu Ser Asn Ser Thr Met Pro Gly Pro Ser Leu Glu Ser Pro
 1 5 10 15

Val Ser Thr Pro Ala Gly Lys Ile Gly Leu Ala Val Cys Tyr Asp Met
 20 25 30

Arg Phe Pro Glu Leu Ser Leu Ala Leu Ala Gln Ala Gly Ala Glu Ile
 35 40 45

Leu Thr Tyr Pro Ser Ala Phe Gly Ser Ile Thr Gly Pro Ala His Trp
 50 55 60

Glu Val Leu Leu Arg Ala Arg Ala Ile Glu Thr Gln Cys Tyr Val Val
 65 70 75 80

Ala Ala Ala Gln Cys Gly Arg His His Glu Lys Arg Ala Ser Tyr Gly
 85 90 95

His Ser Met Val Val Asp Pro Trp Gly Thr Val Val Ala Arg Cys Ser
 100 105 110

Glu Gly Pro Gly Leu Cys Leu Ala Arg Ile Asp Leu Asn Tyr Leu Arg
 115 120 125

Gln Leu Arg Arg His Leu Pro Val Phe Gln His Arg Arg Pro Asp Leu
 130 135 140

Tyr Gly Asn Leu Gly His Pro Leu Ser
 145 150

<210> 189

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals stop translation

<400> 189

Met Asn Ile Leu Met Phe Ala Phe Met Ile Ile Phe Met Gly Ala Lys
 1 5 10 15

Phe Gln Glu Val Glu Phe Trp Val Arg Gly Tyr Asp His Leu Lys Ala
 20 25 30

Thr Leu Phe Asp Gln Ile Gly Arg Tyr Leu Lys Met Gly Gly Gln Glu
 35 40 45

Pro Leu Leu Ala Lys Val Trp Val Arg Gly Thr Xaa
 50 55 60

<210> 190

<211> 108

<212> PRT

<213> Homo sapiens

<400> 190

Met Ser Ser Val Ser Leu Ser Ala Ser Ser Ser Ser Ser Lys Val
 1 5 10 15

Pro Arg Val Arg Ile Lys Ser Glu Gly Cys Ser Thr Gly Asp Lys Leu
 20 25 30

Ser Leu Ala Val Pro Ala Ser Lys Ala Thr Glu Pro Ile Ser Phe Arg
 35 40 45

Arg Arg Ser Ser Cys Ser Leu Cys Cys Trp Leu Ser Ala Leu Ala Ser
 50 55 60

Asp Phe Phe Arg Arg Ser Tyr Ser Gly Arg Tyr Ser Leu Ser Tyr Ser
 65 70 75 80

Ser Ala Ala Leu Val Thr Cys Thr Lys Ser Ser Ser Asn Pro Val Pro
 85 90 95

Arg Thr Ala Glu Thr Pro Thr Thr Leu Ser Glu Leu
 100 105

<210> 191

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals stop translation

<400> 191

Met Ser Ile Thr Leu Ile Gln Leu Met Phe Tyr Phe Asn Thr Pro Glu
 1 5 10 15

Leu Pro His Lys Thr Ser Phe His Val Lys Gly Ser Arg Xaa
 20 25 30

<210> 192

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals stop translation

<400> 192

Met Ser Leu Leu Leu Phe Leu Lys Val His Leu Phe Ser Pro Ser Thr
 1 5 10 15

Ile Phe Lys Arg Asn Asn Xaa
 20

<210> 193

<211> 106

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (89)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (106)
 <223> Xaa equals stop translation

<400> 193

Met Gly Pro Ala Leu Met Val Ala Ser Leu Cys Leu Gly Gly Pro Ala
 1 5 10 15

Pro Ala Val Gly Ala Ile Thr Pro Ser Pro Phe Ile Thr Ser Leu Arg
 20 25 30

Trp Ala Pro Ser Pro Ala Gly Cys Leu Pro Ser Gly Asn Ser Arg Thr
 35 40 45

Leu Arg Asp Thr Arg Ala Ala Trp Pro Arg Gly Ala Thr Ala Arg Pro
 50 55 60

Pro Gly Gly Gln Pro Trp Arg Glu Leu Arg Pro Thr Tyr Ser Gly Val
 65 70 75 80

Trp Glu Pro Cys Leu Tyr Leu Gly Xaa Ser Pro Ser Gln Leu Pro Pro
 85 90 95

Cys Val Phe Pro Pro Ala Lys Val Gly Xaa
 100 105

<210> 194
 <211> 54
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals stop translation

<400> 194

Met Lys Val Gln Ser Phe Tyr Lys Thr Leu Ile Pro Leu Leu Thr Ile
 1 5 10 15

Phe Met Met Val Ala Leu Val Asn Phe Thr Gly Lys Lys Asn Ser Gln
 20 25 30

Asn Tyr Pro Ala Gly Asn Ile Ser Ser Leu Pro Lys Asp Lys Thr Val
 35 40 45

Lys Thr Arg Leu Gly Xaa
 50

<210> 195

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals stop translation

<400> 195

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Arg | Asp | Pro | Leu | Asn | Arg | Val | Leu | Ala | Asn | Leu | Phe | Leu | Leu | Ile |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Ile | Leu | Gly | Ser | Arg | Thr | Ala | Gly | Pro | His | Thr | Gln | Phe | Val |
| | | | | | 20 | | | | 25 | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|
| Gln | Trp | Phe | Met | Glu | Glu | Cys | Val | Asp | Cys | Ileu | Glu | Gln | Gly | Gly | Arg |
| | | | 35 | | | | 40 | | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ser | Val | Leu | Gln | Phe | Met | Pro | Phe | Thr | Thr | Val | Ser | Glu | Leu | Val |
| | | 50 | | | | 55 | | | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Val | Ser | Ala | Met | Ser | Ser | Pro | Lys | Val | Val | Leu | Ala | Ile | Thr | Asp |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ser | Leu | Pro | Leu | Gly | Arg | Gln | Val | Ala | Ala | Lys | Ala | Ile | Ala | Ala |
| | | | | 85 | | | | 90 | | | | 95 | | | |

Leu Xaa

<210> 196

<211> 25

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals stop translation

<400> 196

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gln | Gly | Ser | Pro | Leu | Val | Thr | Ala | Ile | Tyr | Lys | Ile | Phe | Leu | Leu |
| 1 | | | | | 5 | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|
| Ser | Leu | Leu | Val | Arg | Gly | Ile | Cys | Xaa | | | | | | | |
| | | | 20 | | | | 25 | | | | | | | | |

<210> 197

<211> 126

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (126)
 <223> Xaa equals stop translation

<400> 197
 Met Ala Phe Asn Gly Ile Ile His Ala Leu Ala Ser Pro Leu Leu Ala
 1 5 10 15
 Pro Pro Gln Pro Gln Ala Val Leu Ala Pro Glu Ala Pro Pro Val Ala
 20 25 30
 Ala Gly Val Gly Ala Val Leu Ala Ala Gly Ala Leu Leu Gly Leu Val
 35 40 45
 Ala Gly Ala Leu Tyr Leu Arg Ala Arg Gly Lys Pro Met Gly Phe Gly
 50 55 60
 Phe Ser Ala Phe Gln Ala Glu Asp Asp Ala Asp Asp Asp Phe Ser Pro
 65 70 75 80
 Trp Gln Glu Gly Thr Asn Pro Thr Leu Val Ser Val Pro Asn Pro Val
 85 90 95
 Phe Gly Ser Asp Thr Phe Cys Glu Pro Phe Asp Asp Ser Leu Leu Glu
 100 105 110
 Glu Asp Phe Pro Asp Thr Gln Arg Ile Leu Thr Val Lys Xaa
 115 120 125

<210> 198
 <211> 24
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals stop translation

<400> 198
 Met Leu Val Glu Lys Ile Leu Leu Ile Glu Cys Leu Ser Ser Glu Ser
 1 5 10 15
 Gln Leu Ile Gly Phe Leu Leu Xaa
 20

<210> 199
 <211> 81
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (81)
 <223> Xaa equals stop translation

<400> 199

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Ala | Lys | Phe | Leu | Gly | Asn | Ala | Pro | Cys | Gly | His | Tyr | Thr | Phe |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Phe | Pro | Gln | Ala | Met | Arg | Thr | Glu | Ser | Asn | Leu | Gly | Ala | Lys | Val |
| | | | | | 20 | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Phe | Phe | Lys | Ala | Leu | Leu | Leu | Thr | Gly | Asp | Phe | Ser | Gln | Ala | Gly |
| | | | | | 35 | | | 40 | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Lys | Gly | His | His | Val | Trp | Val | Thr | Lys | Asp | Glu | Leu | Gly | Asp | Tyr |
| | | | | | 50 | | | 55 | | | 60 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Pro | Lys | Tyr | Leu | Ala | Gln | Val | Arg | Arg | Phe | Val | Ser | Asp | Leu |
| | | | | | 65 | | | 70 | | | 75 | | | 80 | |

Xaa

<210> 200

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals stop translation

<400> 200

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Thr | Phe | Leu | Ile | Phe | Leu | Phe | Pro | Glu | Val | Val | Leu | Gly | Leu |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

Leu Arg Asp Tyr Ser Ser Xaa

20

<210> 201

<211> 9

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals stop translation

<400> 201

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | His | Val | Tyr | Leu | Asn | Tyr | Lys | Xaa |
| 1 | | | | 5 | | | | |

<210> 202

<211> 11

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals stop translation

<400> 202
 Met Val Glu Ser Asn Leu Pro Gly Pro Ala Xaa
 1 5 10

<210> 203
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 203
 Thr Phe Lys Ser Leu Trp Lys His Trp Thr Leu Ala Gly Pro Gly Asn
 1 5 10 15

Ile Gly Lys Asn Trp Ile Gly Arg
 20

<210> 204
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 204
 His Glu Gly Thr Trp Arg Trp Glu Ala Pro Thr Pro Leu Gln Ser Leu
 1 5 10 15

Gly Pro Thr Thr Pro Ser Leu Pro Ser Val Ala Asp Leu Cys Gln Asp
 20 25 30

Gly His Gly Gly Cys Ser Glu His Ala Asn Cys Ser Gln Val Gly Thr
 35 40 45

<210> 205
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 205
 Leu Lys Val Pro Thr Cys Tyr Ser Ala Asn Thr
 1 5 10

<210> 206
 <211> 42
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 206
 Trp Gln Val Pro Ala Pro Val Ile Pro Gly Xaa Asp Pro Arg Val Arg
 1 5 10 15

 Gly Ala Arg Lys Arg Thr Leu Leu Gly Val Ala Gly Gly Trp Arg Arg
 20 25 30

 Phe Glu Arg Leu Trp Ala Gly Ser Leu Ser
 35 40

<210> 207
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 207
 Ser Arg Ser Leu Ala Leu Ala Ala Ala Pro Ser Ser Asn Gly Ser Pro
 1 5 10 15

 Trp Arg Leu Leu Gly Ala Leu Cys Leu Gln Arg Pro Pro Val Val Ser
 20 25 30

 Lys Pro Leu Thr Pro Leu Gln Glu Glu
 35 40

<210> 208
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 208
 Met Glu Glu Glu Ala Tyr Ser Lys Gly Phe Gln Glu Gly Leu Lys Lys
 1 5 10 15

 Thr Lys Glu Leu Gln Asp Leu Lys Glu Glu Glu Glu Gln Lys Ser
 20 25 30

 Glu Ser Pro Glu Glu Pro Glu Glu Val
 35 40

<210> 209
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 209
 Glu Glu Thr Glu Glu Glu Lys Gly Pro Arg Ser Ser Lys Leu Glu
 1 5 10 15

 Glu Leu Val His Phe Leu Gln Val Met Tyr Pro Lys Leu Cys Gln His

20

25

30

Trp Gln Val Ile Trp
35

<210> 210
<211> 41
<212> PRT
<213> Homo sapiens

<400> 210
Ile Leu Tyr Leu Val Trp Ala Phe Ile Pro Glu Ser Trp Leu Asn Ser
1 5 10 15
Leu Gly Leu Thr Tyr Trp Pro Gln Lys Tyr Trp Ala Val Ala Leu Pro
20 25 30
Val Tyr Leu Leu Ile Ala Ile Val Ile
35 40

<210> 211
<211> 20
<212> PRT
<213> Homo sapiens

<400> 211
Tyr Gly Phe Val Leu Phe Leu Ser Ser Gln Phe Gly Phe Ile Leu Tyr
1 5 10 15
Leu Val Trp Ala
20

<210> 212
<211> 12
<212> PRT
<213> Homo sapiens

<400> 212
Thr Ser Pro Leu Asp Ser Ile His Thr Ile Thr Asp
1 5 10

<210> 213
<211> 20
<212> PRT
<213> Homo sapiens

<400> 213
Pro Leu Pro Glu Arg Ala Ile Tyr Gly Phe Val Leu Phe Leu Ser Ser
1 5 10 15
Gln Phe Gly Phe
20

<210> 214
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 214
 Pro Thr Arg Gly Gly Ser Leu Cys Ala Cys Pro Gly Trp Gly Leu Pro
 1 5 10 15

Ser Arg Leu Gly Leu Ser Leu Arg Phe Ser Ser Ser Pro Leu Arg Leu
 20 25 30

Pro Ser Arg Arg Leu Arg Glu Asn Ser Ala Leu Arg Leu Ser Lys Ala
 35 40 45

Pro Gly Lys
 50

<210> 215
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 215
 Pro Pro Gly Cys Arg Asn Ser Ala Arg Glu
 1 5 10

<210> 216
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 216
 Pro Pro Gly Cys Arg Asn Ser Ala Arg Glu
 1 5 10

<210> 217
 <211> 44
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 217
 Gly Ala Ser Ser Arg Pro Arg Leu Glu Leu Gly Arg Leu Met Gly Pro
 1 5 10 15

Lys Gly Val Ala Val Asp Arg Asn Xaa His Ile Ile Val Val Asp Asn
 20 25 30

Lys Ser Cys Cys Val Phe Thr Phe Gln Pro Asn Gly
 35 40

<210> 218

<211> 44

<212> PRT

<213> Homo sapiens

<400> 218

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Val | Gly | Arg | Phe | Gly | Gly | Arg | Gly | Ala | Thr | Asp | Arg | His | Phe |
| 1 | | | | | 5 | | | | | 10 | | | | | 15 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Pro | His | Phe | Val | Ala | Val | Asn | Asn | Lys | Asn | Glu | Ile | Val | Val |
| | | | | | 20 | | | | | 25 | | | | | 30 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
| Thr | Asp | Phe | His | Asn | His | Ser | Val | Lys | Val | Tyr | Ser | | | | |
| | | | | | | | | | | | | | | | |

35

40

<210> 219

<211> 42

<212> PRT

<213> Homo sapiens

<400> 219

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Asp | Gly | Glu | Phe | Leu | Phe | Lys | Phe | Gly | Ser | His | Gly | Glu | Gly | Asn |
| 1 | | | | | 5 | | | | | 10 | | | | | 15 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gln | Phe | Asn | Ala | Pro | Thr | Gly | Val | Ala | Val | Asp | Ser | Asn | Gly | Asn |
| | | | | | 20 | | | | | 25 | | | | | 30 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|
| Ile | Ile | Val | Ala | Asp | Trp | Gly | Asn | Ser | Arg | | | | | | |
| | | | | | 35 | | | | | | | | | | |

40

<210> 220

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 220

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Xaa | Gly | Ile | Arg | Xaa | Leu | Trp | Leu | Leu | Pro | Val | Leu | Tyr | Gln | His |
| 1 | | | | | | 5 | | | | 10 | | | | | 15 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Cys | Arg | Thr | Thr | Val | Trp | Ser | Thr | Gly | Pro | Gly | Thr | Asp | Leu | Gly |
| | | | | | | | | | | | | | | | 30 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|
| Trp | Pro | Cys | Gly | Gly | Gly | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

35

<210> 221
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 221
 Met Glu Trp Glu Gly Gly Ala Ile Arg His Pro Ser Thr Glu Leu Gly
 1 5 10 15

<210> 222
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 222
 Arg Pro Thr Arg Pro Pro Asp Gly Cys His Pro Ser Cys Cys Arg Met
 1 5 10 15
 Glu Ala Ala Met Glu Trp Glu Gly Gly Ala Ile Arg His Pro Ser Thr
 20 25 30
 Glu Leu Gly Ile
 35

<210> 223
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 223
 Glu Cys Gln Glu Tyr Glu Ile Leu Glu His Cys Trp Trp Glu Cys Lys
 1 5 10 15
 Leu Val Gln Pro Phe Trp Lys Ser Ser Cys Arg Ile Pro Ala Ala Arg
 20 25 30
 Gly Ile His
 35

<210> 224
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 224
 His Cys Trp Trp Glu Cys Lys Leu Val Gln Pro Phe Trp Lys Ser
 1 5 10 15

<210> 225

<211> 6
 <212> PRT
 <213> Homo sapiens

<400> 225
 Phe Thr Phe Pro Pro Thr
 1 5

<210> 226
 <211> 127
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (90)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (110)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (117)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (118)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 226
 His His His Leu Arg Val Gly Ser Pro Trp Ser His Pro Glu Thr Gly~
 1 5 10 15

Thr Ala Val His Gly Ala His Pro Gln Gly Glu Ala Ala Ser Asp Arg
 20 25 30

His Arg Gly Cys Phe Tyr Arg Arg Gln Leu Met His Gln Leu Pro
 35 40 45

Ile Tyr Asp Gln Asp Pro Ser Arg Cys Arg Gly Leu Leu Glu Asn Glu
 50 55 60

Leu Lys Leu Met Glu Glu Phe Val Lys Gln Tyr Lys Ser Glu Ala Leu
 65 70 75 80

Gly Val Gly Glu Val Ala Leu Pro Gly Xaa Gly Trp Leu Ala Lys Glu
 85 90 95

Glu Gly Lys Gln Gln Glu Lys Pro Glu Gly Ala Glu Thr Xaa 'Ala Xaa
 100 105 110

Thr Thr Asn Gly Xaa Xaa Ser Asp Pro Ser Lys Glu Glu Ala Cys
 115 120 125

<210> 227
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 227
 Thr Tyr Glu Trp Ala Pro Pro
 1 5

<210> 228
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 228
 Pro Lys Glu Lys Gln Pro Val
 1 5

<210> 229
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 229
 Pro Arg Pro Ala Asn Leu Ala Ile Gln Pro Pro Leu Ser Pro Leu Arg
 1 5 10 15

Ala Leu Ala Pro Leu Pro Glu Lys Pro Gly Ala Val Pro Pro Pro Gln
 20 25 30

Lys Arg

<210> 230
 <211> 163
 <212> PRT
 <213> Homo sapiens

<400> 230
 Ala His Ala Val Trp Arg Pro Gly Val Leu Pro Gly Leu Val Glu Leu
 1 5 10 15

Arg Val Cys His Leu Leu Ala Glu Leu Glu His Pro Cys Ala Gln
 20 25 30

Val Val His Gln Val Gly Gly Val Cys Val Cys Val Met Trp Asn Met
 35 40 45

Ala Val Asn Leu Asn Arg Phe Pro Cys Pro Leu Leu Cys Arg His Phe
 50 55 60

Tyr Lys Pro Met Leu Arg Arg Gly Ser Ser Lys Trp Met Ala Arg Thr
 65 70 75 80

Gly Val Phe Leu Ala Ser Ala Phe Phe His Glu Tyr Leu Val Ser Val
 85 90 95

Pro Leu Arg Met Phe Arg Leu Trp Ala Phe Thr Gly Met Met Ala Gln
 100 105 110

Ile Pro Leu Ala Trp Phe Val Gly Arg Phe Phe Gln Gly Asn Tyr Gly
 115 120 125

Asn Ala Ala Val Trp Leu Ser Leu Ile Ile Gly Gln Pro Ile Ala Val
 130 135 140

Leu Met Tyr Val His Asp Tyr Tyr Val Leu Asn Tyr Glu Ala Pro Ala
 145 150 155 160

Ala Glu Ala

<210> 231

<211> 8

<212> PRT

<213> Homo sapiens

<400> 231

Tyr Phe Leu Phe Ala Pro Thr Leu
 1 5

<210> 232

<211> 16

<212> PRT

<213> Homo sapiens

<400> 232

Asn Leu Asn Arg Phe Pro Cys Pro Leu Leu Cys Arg His Phe Tyr Lys
 1 5 10 15

<210> 233

<211> 16

<212> PRT

<213> Homo sapiens

<400> 233

Gln Gly Asn Tyr Gly Asn Ala Ala Val Trp Leu Ser Leu Ile Ile Gly
 1 5 10 15

<210> 234

<211> 17

<212> PRT

<213> Homo sapiens

<400> 234

Leu Tyr Tyr Phe Leu Phe Ala Pro Thr Leu Cys Tyr Glu Leu Asn Phe
1 5 10 15

Pro

<210> 235

<211> 26

<212> PRT

<213> Homo sapiens

<400> 235

Glu Met Leu Phe Phe Thr Gln Leu Gln Val Gly Leu Ile Gln Gln Trp
1 5 10 15Met Val Pro Thr Ile Gln Asn Ser Met Lys
20 25

<210> 236

<211> 18

<212> PRT

<213> Homo sapiens

<400> 236

Val Thr Tyr Phe Trp Gln Asn Trp Asn Ile Pro Val His Lys Trp Cys
1 5 10 15

Ile Arg

<210> 237

<211> 60

<212> PRT

<213> Homo sapiens

<400> 237

Pro Phe Lys Asp Met Asp Tyr Ser Arg Ile Ile Glu Arg Leu Leu Lys
1 5 10 15Leu Ala Val Pro Asn His Leu Ile Trp Leu Ile Phe Phe Tyr Trp Leu
20 25 30Phe His Ser Cys Leu Asn Ala Val Ala Glu Leu Met Gln Phe Gly Asp
35 40 45

Arg Glu Phe Tyr Arg Asp Trp Trp Asn Ser Glu Ser

50

55

60

<210> 238
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 238
 Arg His Phe Tyr Lys Pro Met Leu Arg Arg Gly Ser Ser Lys Trp Met
 1 5 10 15
 Ala Arg Thr Gly Val Phe Leu Ala Ser Ala Phe Phe His Glu Tyr Leu
 20 25 30
 Val Ser Val Pro Leu Arg Met Phe Arg Leu Trp Ala Phe Thr Gly Met
 35 40 45

<210> 239
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 239
 Met Ala Gln Ile Pro Leu Ala Trp Phe Val Gly Arg Phe Phe Gln Gly
 1 5 10 15
 Asn Tyr Gly Asn Ala Ala Val Trp Leu Ser Leu Ile Ile Gly Gln Pro
 20 25 30
 Ile Ala Val Leu Met Tyr Val His Asp Tyr Tyr Val Leu Asn Tyr
 35 40 45

<210> 240
 <211> 23
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 240
 Ser Gly Xaa Trp Gln Gly Leu Asp Glu Val Val Arg Leu Leu Asn Xaa
 1 5 10 15
 Ser Asp Phe Ala Phe Thr Asp

20

<210> 241
 <211> 61
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 241
 Gly Ser Leu Ala Lys Arg Ser Asn Phe Arg Ala Ile Ser Lys Lys Leu
 1 5 10 15

Asn Leu Ile Pro Arg Val Asp Gly Glu Tyr Asp Leu Lys Val Pro Arg
 20 25 30

Asp Met Ala Tyr Val Phe Xaa Gly Ala Tyr Val Pro Leu Ser Cys Arg
 35 40 45

Ile Ile Glu Gln Val Leu Glu Arg Arg Xaa Ala Gly Pro
 50 55 60

<210> 242
 <211> 194
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any of the naturally occurring L-amino acids -

<400> 242
 Glu Val Ile Asn Thr Leu Ala Asp His Arg His Arg Gly Thr Asp Phe
 1 5 10 15

Gly Gly Ser Pro Trp Leu Leu Ile Ile Thr Val Phe Leu Arg Ser Tyr
 20 25 30

Lys Phe Ala Ile Ser Leu Cys Thr Ser Tyr Leu Cys Val Ser Phe Leu
 35 40 45

Lys Thr Ile Phe Pro Ser Gln Asn Gly His Asp Gly Ser Thr Asp Val
 50 55 60

Gln Gln Arg Ala Arg Arg Ser Asn Xaa Arg Arg Gln Glu Gly Ile Lys
 65 70 75 80

Ile Val Leu Glu Asp Ile Phe Thr Leu Trp Arg Gln Val Glu Thr Lys
 85 90 95

Val Arg Ala Lys Ile Arg Lys Met Lys Val Thr Thr Lys Val Asn Arg
 100 105 110

His Asp Lys Ile Asn Gly Lys Arg Lys Thr Ala Lys Glu His Leu Arg
 115 120 125

Lys Leu Ser Met Lys Glu Arg Glu His Gly Glu Lys Glu Arg Gln Val
 130 135 140

Ser Glu Ala Glu Glu Asn Gly Lys Leu Asp Met Lys Glu Ile His Thr
 145 150 155 160

Tyr Met Glu Met Phe Gln Arg Ala Gln Val Cys Gly Gly Gln Arg
 165 170 175

Thr Thr Thr Asp Ala Lys Ser Pro Leu Leu Gln Glu Ser Leu Phe Ala
 180 185 190

Thr Gly

<210> 243

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 243

Ile Cys Val Lys Thr Phe Pro Pro Leu Ala Leu Gln Val Arg Met Ala
 1 5 10 15

Ala Xaa Glu His Arg His Ser Ser Gly Leu Pro Xaa Trp Pro Tyr Leu
 20 25 30

Thr Ala Glu Thr Leu Lys Asn Arg Met Gly His Gln Pro Pro Pro

35

40

45

Thr Gln Gln His Ser Ile Xaa Asp Asn Ser Leu Ser Leu Lys Thr Pro
 50 55 60

Ala Glu Cys Leu Leu Tyr Pro Leu Pro Pro Ser Ala Asp Asp Asn Leu
 65 70 75 80

Lys Thr Pro Xaa Glu Cys Leu Leu Thr Pro Leu Pro Pro Ser Ala Pro
 85 90 95

Pro Ser Ala Asp Asp Asn Leu Lys Thr Pro Pro Glu Cys Val Cys Ser
 100 105 110

Leu Pro Phe His Pro Gln Leu His Pro Gln Arg Met Ile Ile Ser Arg
 115 120 125

His Leu Pro Ser Val Ser Ala His Ser Pro Ser Thr Leu Ser Gly
 130 135 140

<210> 244

<211> 20

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 244

Arg Ala Arg Arg Ser Asn Xaa Arg Arg Gln Glu Gly Ile Lys Ile Val
 1 5 10 15

Leu Glu Asp Ile

20

<210> 245

<211> 16

<212> PRT

<213> Homo sapiens

<400> 245

Leu Ser Leu Lys Thr Pro Ala Glu Cys Leu Leu Tyr Pro Leu Pro Pro
 1 5 10 15

<210> 246

<211> 27

<212> PRT

<213> Homo sapiens

<400> 246

Phe Leu Leu Ile Glu Ser Tyr Gln Lys Leu Arg Asn Lys Thr Asn Leu
 1 5 10 15

Ser Leu His Val Phe Leu Phe His Thr Glu Val
 20 25

<210> 247

<211> 159

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 247

Tyr Ala Leu Arg Thr Gly Ala Phe Glu Pro Ala Glu Ala Ser Val Asn
 1 5 10 15

Pro Gln Asp Leu Gln Gly Ser Leu Gln Glu Leu Lys Glu Arg Ala Leu
 20 25 30

Ser Arg Tyr Asn Leu Val Arg Gly Gln Gly Pro Glu Arg Leu Val Ser
 35 40 45

Gly Ser Asp Asp Phe Thr Leu Phe Leu Trp Ser Pro Ala Glu Xaa Lys
 50 55 60

Lys Pro Leu Thr Arg Met Thr Gly His Gln Ala Leu Ile Asn Gln Val
 65 70 75 80

Leu Phe Ser Pro Asp Ser Arg Ile Val Ala Ser Ala Ser Phe Asp Lys
 85 90 95

Ser Ile Lys Leu Trp Asp Gly Arg Thr Gly Lys Tyr Leu Ala Ser Leu
 100 105 110

Arg Gly His Val Ala Ala Val Tyr Gln Ile Ala Trp Ser Ala Asp Ser
 115 120 125

Arg Leu Leu Val Ser Gly Ser Ser Xaa Gln His Thr Glu Gly Val Gly
 130 135 140

Cys Glu Gly Pro Glu Ala Gly His Gly Pro Ala Arg Pro Arg Gly
 145 150 155

<210> 248

<211> 21

<212> PRT

<213> Homo sapiens

<400> 248

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Lys | Glu | Arg | Ala | Leu | Ser | Arg | Tyr | Asn | Leu | Val | Arg | Gly | Gln | Gly |
| 1 | | | | | 5 | | | | | 10 | | | | | 15 |

| | | | | |
|-----|-----|-----|-----|-----|
| Pro | Glu | Arg | Leu | Val |
| | | | 20 | |

<210> 249

<211> 137

<212> PRT

<213> Homo sapiens

<400> 249

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Thr | Pro | Ser | Met | Arg | Ala | Asn | Arg | Met | Pro | Pro | Ile | Ile | Ala |
| 1 | | | | | 5 | | | | | 10 | | | | | 15 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Pro | Thr | Met | Ala | Ser | Gly | Pro | Leu | Arg | Ala | Ala | Ser | Thr | Ala | Pro |
| | | | | | 20 | | | | | 25 | | | | | 30 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Asn | Ala | Pro | Leu | Val | Ile | Glu | Phe | Gln | Gly | Ser | Ser | Leu | Pro | Arg |
| | | | | | 35 | | | 40 | | | | | 45 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Arg | Thr | Arg | Pro | Gln | Ser | Met | Val | Glu | Asn | Arg | Pro | Pro | His | Thr |
| | | | | | 50 | | | 55 | | | | 60 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Lys | Leu | Pro | Pro | Ile | Trp | Gly | Ala | Arg | Ile | Leu | Thr | Ala | Leu | Ala |
| | | | | | 65 | | | 70 | | | 75 | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Pro | Leu | Asn | Arg | Cys | Arg | Ile | Pro | Thr | Gly | Ala | Leu | Arg | Lys | Pro |
| | | | | | 85 | | | | 90 | | | | 95 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Met | Ala | Trp | Lys | Thr | Pro | Pro | Pro | Met | Thr | Pro | Ile | Val | Lys | Ala |
| | | | | | 100 | | | | 105 | | | 110 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Gln | Ser | Ser | Thr | Ile | Arg | His | Gly | Gln | Gly | Ser | Arg | Ala | Tyr |
| | | | | | 115 | | | 120 | | | | 125 | | | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gly | Arg | Val | Gly | Gly | Arg | Val | Gly |
| | | | | | 130 | | | 135 |

<210> 250

<211> 25

<212> PRT

<213> Homo sapiens

<400> 250

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ala | Arg | Ile | Leu | Thr | Ala | Leu | Ala | Leu | Pro | Leu | Asn | Arg | Cys | Arg |
| 1 | | | | | 5 | | | | | 10 | | | | 15 | |

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Pro | Thr | Gly | Ala | Leu | Arg | Lys | Pro |
| | | | | | 20 | | | 25 |

<210> 251

<211> 38

<212> PRT

<213> Homo sapiens

<400> 251

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Thr | Arg | Pro | Pro | Thr | Arg | Pro | Glu | Tyr | Ala | Arg | Glu | Pro | Cys | Pro |
| 1 | | | | | | | | | | | | | | | |
| | | | 5 | | | | | | | 10 | | | | | 15 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Arg | Ile | Val | Asp | Asp | Cys | Gly | Gly | Ala | Phe | Thr | Met | Gly | Val | Ile |
| | | | | | | | | | | | | | | | |
| | | | 20 | | | | | | | 25 | | | | | 30 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|
| Gly | Gly | Gly | Val | Phe | Gln | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | 35 | | | | | | | | | | | | |

<210> 252

<211> 39

<212> PRT

<213> Homo sapiens

<400> 252

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ile | Lys | Gly | Phe | Arg | Asn | Ala | Pro | Val | Gly | Ile | Arg | His | Arg | Leu |
| 1 | | | | | | | | | | | | | | | |
| | | | | 5 | | | | | | 10 | | | | | 15 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Gly | Ser | Ala | Asn | Ala | Val | Arg | Ile | Arg | Ala | Pro | Gln | Ile | Gly | Gly |
| | | | | | | | | | | | | | | | |
| | | | 20 | | | | | | | 25 | | | | | 30 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|
| Ser | Phe | Ala | Val | Trp | Gly | Gly | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | 35 | | | | | | | | | | | | |

<210> 253

<211> 40

<212> PRT

<213> Homo sapiens

<400> 253

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Phe | Ser | Thr | Ile | Asp | Cys | Gly | Leu | Val | Arg | Leu | Arg | Gly | Lys | Glu |
| 1 | | | | | | | | | | | | | | | |
| | | | | 5 | | | | | | 10 | | | | | 15 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Pro | Trp | Asn | Ser | Ile | Thr | Ser | Gly | Ala | Leu | Thr | Gly | Ala | Val | Leu |
| | | | | | | | | | | | | | | | |
| | | | 20 | | | | | | | 25 | | | | | 30 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|--|--|----|--|--|--|--|--|
| Ala | Ala | Arg | Ser | Gly | Pro | Leu | Ala | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | 35 | | | | | | | 40 | | | | | |

<210> 254

<211> 38

<212> PRT

<213> Homo sapiens

<400> 254

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Arg | His | Glu | Arg | Lys | Ser | Ala | Arg | Ala | Cys | Cys | Pro | Leu | Thr | Gly |
| 1 | | | | | | | | | | | | | | | |
| | | | | 5 | | | | | | 10 | | | | | 15 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gln | Arg | Arg | Gly | Gln | Ala | Leu | Pro | Thr | Pro | Arg | Ala | Gly | Pro | Gly |
| | | | | | | | | | | | | | | | |
| | | | 20 | | | | | | | 25 | | | | | 30 |

His Ser Pro Ala Pro Val
35

<210> 255

<211> 38

<212> PRT

<213> Homo sapiens

<400> 255

Ala Pro Ser Ala Pro Gln Glu Asp Gly Gly Ser Pro Pro Ala Pro Gln
1 5 10 15

Gly Gln Pro Asp Pro Gly Pro Gly Ala Gly Gln Pro Ala Gln Leu Gly
20 25 30

Pro Leu Leu Ala Phe Leu
35

<210> 256

<211> 44

<212> PRT

<213> Homo sapiens

<400> 256

Pro Leu Leu His Gln Asp Cys Lys Glu Ser Pro His Leu Gly Ser Ser
1 5 10 15

Gly Ser Pro Val Gln Ala Leu Asp Leu Ser Ser Ile Gln Thr Arg Thr
20 25 30

Ala Val Ser Cys Val Asp Gly Val Arg Leu Trp Ala
35 40

<210> 257

<211> 15

<212> PRT

<213> Homo sapiens

<400> 257

His Arg Leu Gln Val Phe Ser Phe Pro Ile Leu Gly Ser His Asn
1 5 10 15

<210> 258

<211> 52

<212> PRT

<213> Homo sapiens

<400> 258

Gly Lys Val Glu Ile Glu Val Phe Ile Phe Pro Tyr Glu Tyr Pro Val
1 5 10 15

Val Pro Thr Pro Leu Ile Lys Asn Thr Ile Leu Tyr Pro Leu Ser Leu
20 25 30

Phe Cys Thr Phe Ile Lys Asn Gln Phe Ser Ile Tyr Leu Trp Ile Lys
 35 40 45

Phe Phe Ile Phe
 50

<210> 259
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 259
 Arg Ala Thr Thr His Val Ser Arg Glu Phe Phe Gly His Thr
 1 5 10

<210> 260
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 260
 Thr Leu Phe Ser Met Phe Ser Gly Pro Leu Gly Arg Gln Thr Gln Leu
 1 5 10 15

Asp Phe Arg Ala Asp Ile Gly Glu Glu Asn Met Ala Leu Ser Val Leu
 20 25 30

Ser Pro Asp Lys Cys Tyr Leu Tyr Thr
 35 40

<210> 261
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 261
 His Pro Asn Leu Lys Arg Lys Cys Ile Ser Leu Gly Phe Lys His Cys
 1 5 10 15

Asn Arg Tyr Lys Ala Lys Ile Lys Thr Cys Cys Lys Val Gln Lys Lys
 20 25 30

Lys Gly Arg
 35 40 45

<210> 262
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 262
 His Ser Gly Val Gln Thr Ile Ala Phe Gly Leu Glu Cys
 1 5 10

<210> 263
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 263
 Lys Val Gln Asp Arg Asp Gly Lys Glu Arg Arg Lys Gln Glu Glu Val
 1 5 10 15
 Lys Leu Gly Arg Trp Cys Gln Trp His
 20 25

<210> 264
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 264
 Ala Cys Gly Ala Pro Glu Glu Ala Gly Gly
 1 5 10

<210> 265
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 265
 Leu Phe Ser Ser Phe Leu Gly Asp Thr Thr Val His Lys Val Leu Ser
 1 5 10 15
 Arg Ala Thr Leu His Leu His Pro Ala Pro Tyr Leu Thr Gly Val Asp
 20 25 30
 Ser Tyr Ser
 35

<210> 266
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 266
 Asp Phe Ser Ser Tyr Ser His Pro Ser Leu Gly Thr Gln Leu Ser Ile
 1 5 10 15
 Arg Cys Tyr Pro Glu Pro His Cys Ile Cys Thr Gln His His Thr Ser
 20 25 30
 Gln Glu Ser Thr Pro Thr Leu
 35

<210> 267
 <211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 267

Ala Pro Gln Lys Phe Pro Xaa Gly Phe Phe Phe Phe Leu Phe Ser
 1 5 10 15

Arg Arg Lys Lys Gln Cys Ser Lys Val Val Gln Asn Thr Gly Ala Gly
 20 25 30

Ala Ile Gln Thr Gln Val

35

<210> 268

<211> 38

<212> PRT

<213> Homo sapiens

<400> 268

Gln Leu Leu Thr Ser Pro Thr Phe Ser Thr Val Leu Ser Asn Tyr Thr
 1 5 10 15

Cys Gln Ala Pro Ser Gln Trp Thr Asp Trp Gln Ala Leu Leu Pro Thr
 20 25 30

Gly Ile Gln Thr Glu His

35

<210> 269

<211> 36

<212> PRT

<213> Homo sapiens

<400> 269

His Gln Gly Trp Asp Lys Gln Lys Gln Cys Lys Arg Lys Cys Glu His
 1 5 10 15

Glu His Ala Pro Leu His His Asn Leu Trp Lys Gln Ser Gly Lys Thr
 20 25 30

Arg Leu Gly Asp

35

<210> 270

<211> 27

<212> PRT

<213> Homo sapiens

<400> 270

Lys His Val Ile Phe Phe Met Phe Ile Ser Asn Leu Phe Leu Ile Leu

1

5

10

15

Cys Phe Leu Phe Arg Pro Thr Lys Thr Thr Val
 20 25

<210> 271
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 271
 Asp Lys Leu Leu Ser Phe His Leu Val Ser Ile
 1 5 10

<210> 272
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 272
 Lys Trp Lys Gly Asp Leu His Cys Ile Leu Gly Leu Leu Ala
 1 5 10

<210> 273
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 273
 Leu Ala Pro Ser Ser Val Gly Ser Ala Ser
 1 5 10

<210> 274
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 274
 Arg Glu Ala Thr Lys Asn Pro Thr His His Arg Ser Thr Pro His Ala
 1 5 10 15
 Ala Gly Ser Gln Leu Asn Val Pro Pro Gln Pro Cys Phe Pro Leu His
 20 25 30
 His Gln Ile Lys Thr Ser Pro
 35

<210> 275
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 275

Ser Gln Thr Ile Phe Lys Gln Ser Arg His Arg Cys Asp Ser Arg Gln
 1 5 10 15

Glu Ser Thr Trp Leu Cys Ser His Glu Lys Asp Ala Thr Lys Met Met
 20 25 30

His Leu Asn Asp Asn Ser
 35

<210> 276

<211> 48

<212> PRT

<213> Homo sapiens

<400> 276

Val Thr Gly Ser Pro Ile Leu Gln Leu Ala Leu Leu Gln Leu Pro Ala
 1 5 10 15

Trp Pro Leu Arg Gly Arg Leu Arg Gly Lys Arg His Cys Thr Gly Leu
 20 25 30

Asn Leu Ala Ile Ser Gly Asn Gly Gly Glu Trp Gly Gly Arg Gly Glu
 35 40 45

<210> 277

<211> 13

<212> PRT

<213> Homo sapiens

<400> 277

Ile Arg His Glu Asp Glu Val Lys Leu Leu Glu Trp Ser
 1 5 10

<210> 278

<211> 35

<212> PRT

<213> Homo sapiens

<400> 278

Ser Leu His Ser Ser Ala Val Ala Ala Thr Tyr Lys Tyr Val Asn Met
 1 5 10 15

Gln Asp Pro Glu Met Asp Met Lys Ser Val Thr Asp Arg Ala Ala Arg
 20 25 30

Thr Leu Leu
 35

<210> 279

<211> 60

<212> PRT

<213> Homo sapiens

<400> 279

Trp Thr Glu Leu Phe Arg Gly Leu Gly Met Thr Leu Ser Tyr Leu Phe
 1 5 10 15

Arg Glu Pro Ala Thr Ile Asn Tyr Pro Phe Glu Lys Gly Pro Leu Ser
 20 25 30

Pro Arg Phe Arg Gly Glu His Ala Leu Arg Arg Tyr Pro Ser Gly Glu
 35 40 45

Glu Arg Cys Ile Ala Cys Lys Leu Cys Glu Ala Ile
 50 55 60

<210> 280

<211> 57

<212> PRT

<213> Homo sapiens

<400> 280

Cys Pro Ala Gln Ala Ile Ile Glu Ala Glu Pro Arg Ala Asp Gly Ser
 1 5 10 15

Arg Arg Thr Thr Arg Tyr Asp Ile Asp Met Thr Lys Cys Ile Tyr Cys
 20 25 30

Gly Phe Cys Gln Glu Ala Cys Pro Val Asp Ala Ile Val Glu Gly Pro
 35 40 45

Asn Phe Glu Phe Ser Thr Glu Thr His
 50 55

<210> 281

<211> 19

<212> PRT

<213> Homo sapiens

<400> 281

Gly Asp Lys Trp Glu Ala Glu Ile Ala Ala Asn Ile Gln Ala Asp Tyr
 1 5 10 15

Leu Tyr Arg

<210> 282

<211> 48

<212> PRT

<213> Homo sapiens

<400> 282

Ser Ala Ala Asp Pro Ala Thr Gln Pro Gly Asp Ser Arg Ala Leu Pro
 1 5 10 15

Glu Pro Arg Gly Val Pro Ala Val His Pro Ala Gly Ser Gly Ser Glu

20

25

30

Trp Glu Arg Pro Pro Pro Ala Ala Pro Ser Pro Glu His Arg Asp Lys
 35 40 45

<210> 283

<211> 24

<212> PRT

<213> Homo sapiens

<400> 283

Asp Ser Arg Ala Leu Pro Glu Pro Arg Gly Val Pro Ala Val His Pro
 1 5 10 15

Ala Gly Ser Gly Ser Glu Trp Glu
 20

<210> 284

<211> 7

<212> PRT

<213> Homo sapiens

<400> 284

Glu Phe Gly Thr Ser Trp Val
 1 5

<210> 285

<211> 78

<212> PRT

<213> Homo sapiens

<400> 285

Thr Leu His Pro Pro Gln Glu Pro Gln Arg Pro Glu Ala Pro Asp Ala
 1 5 10 15

Gly Asp Pro Ala Pro Leu Pro Ser Thr Ser Ser Val Gly Ser Ser Ser
 20 25 30

Gly Gly Ala Cys Gly Val Pro Cys Ala His Trp Arg Val Cys Gly Leu
 35 40 45

Ile His Leu Val Ala Leu Arg Gly Gly Ile Arg Ala Pro Val Ser Pro
 50 55 60

Pro Phe Met Phe Asn Leu His His Asn Leu Leu Asn Leu Arg
 65 70 75

<210> 286

<211> 21

<212> PRT

<213> Homo sapiens

<400> 286
 Glu Pro Gln Arg Pro Glu Ala Pro Asp Ala Gly Asp Pro Ala Pro Leu
 1 5 10 15

Pro Ser Thr Ser Ser
 20

<210> 287

<211> 15

<212> PRT

<213> Homo sapiens

<400> 287

Arg Val Cys Gly Leu Ile His Leu Val Ala Leu Arg Gly Gly Ile
 1 5 10 15

<210> 288

<211> 79

<212> PRT

<213> Homo sapiens

<400> 288

Gln Gly Tyr Ser Thr Lys Pro Arg Leu Met Val Pro Leu Lys Met Asp
 1 5 10 15

Ser Ile Thr Val His Ile Arg Ser Thr Asn Gly Pro Ile Asp Val Tyr
 20 25 30

Leu Cys Glu Val Glu Gln Gly Gln Thr Ser Asn Lys Arg Ser Glu Gly
 35 40 45

Val Gly Thr Ser Ser Ser Glu Ser Thr His Pro Glu Gly Pro Glu Glu
 50 55 60

Glu Glu Asn Pro Gln Gln Ser Glu Glu Leu Leu Glu Val Ser Asn
 65 70 75

<210> 289

<211> 30

<212> PRT

<213> Homo sapiens

<400> 289

Asp Ser Ile Thr Val His Ile Arg Ser Thr Asn Gly Pro Ile Asp Val
 1 5 10 15

Tyr Leu Cys Glu Val Glu Gln Gly Gln Thr Ser Asn Lys Arg
 20 25 30

<210> 290

<211> 25

<212> PRT

<213> Homo sapiens

<400> 290
 Leu Met Val Pro Leu Lys Met Asp Ser Ile Thr Val His Ile Arg Ser
 1 5 10 15

Thr Asn Gly Pro Ile Asp Val Tyr Leu
 20 25

<210> 291

<211> 26

<212> PRT

<213> Homo sapiens

<400> 291

Gln Gly Gln Thr Ser Asn Lys Arg Ser Glu Gly Val Gly Thr Ser Ser
 1 5 10 15

Ser Glu Ser Thr His Pro Glu Gly Pro Glu
 20 25 ..

<210> 292

<211> 19

<212> PRT

<213> Homo sapiens

<400> 292

Arg Pro Thr Arg Pro Ser Ile Leu Gly Leu Tyr Val Asp Leu Tyr Val
 1 5 10 15

Phe Cys Ile

<210> 293

<211> 29

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 293

Cys Gly Ala Cys Thr Xaa Leu Ser Leu Ser Asp Ser Arg Arg Cys Gly
 1 5 10 15

Cys Cys Lys Gly Ser Ser Leu Arg His Thr Ala Val Ala
 20 25

<210> 294

<211> 7

<212> PRT

<213> Homo sapiens

<400> 294

Gly Arg Pro Thr Arg Pro Ile
 1 5

<210> 295

<211> 64

<212> PRT

<213> Homo sapiens

<400> 295

Asp Pro Arg Val Arg Asp Leu Gln Gln Lys Asp Ile Gly Val Lys Pro
 1 5 10 15

Glu Phe Ser Phe Asn Ile Pro Arg Ala Lys Arg Glu Leu Ala Gln Leu
 20 25 30

Asn Lys Cys Thr Ser Pro Gln Gln Lys Leu Val Cys Leu Arg Lys Val
 35 40 45

Val Gln Leu Ile Thr Gln Ser Pro Ser Gln Arg Val Asn Leu Glu Thr
 50 55 60

<210> 296

<211> 21

<212> PRT

<213> Homo sapiens

<400> 296

Gln Gln Lys Asp Ile Gly Val Lys Pro Glu Phe Ser Phe Asn Ile Pro
 1 5 10 15

Arg Ala Lys Arg Glu
 20

<210> 297

<211> 25

<212> PRT

<213> Homo sapiens

<400> 297

Lys Cys Thr Ser Pro Gln Gln Lys Leu Val Cys Leu Arg Lys Val Val
 1 5 10 15

Gln Leu Ile Thr Gln Ser Pro Ser Gln
 20 25

<210> 298

<211> 142

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 298

Gln Lys Glu Trp Lys Leu Phe Leu Arg Gly Arg Gln Asn Glu Lys Ser
 1 5 10 15

Gly Tyr Gln Lys Leu Leu Glu Leu Ile Leu Leu Asp Gln Thr Val Arg
 20 25 30

Val Val Thr Ala Gly Ser Ala Ile Leu Gln Lys Cys His Phe Tyr Glu
 35 40 45

Val Leu Ser Glu Ile Lys Arg Leu Gly Asp His Leu Ala Glu Lys Thr
 50 55 60

Ser Xaa Leu Pro Asn His Ser Glu Pro Asp His Asp Thr Asp Ala Gly
 65 70 75 80

Leu Glu Arg Thr Asn Pro Glu Tyr Glu Asn Glu Val Glu Ala Ser Met
 85 90 95

Asp Met Asp Leu Leu Glu Ser Ser Asn Ile Ser Glu Gly Glu Ile Glu
 100 105 110

Arg Leu Ile Asn Leu Leu Glu Val Phe His Leu Met Glu Thr Ala
 115 120 125

Pro His Thr Met Ile Gln Gln Pro Val Lys Ser Phe Pro Thr
 130 135 140

<210> 299

<211> 27

<212> PRT

<213> Homo sapiens

<400> 299

Leu Arg Gly Arg Gln Asn Glu Lys Ser Gly Tyr Gln Lys Leu Leu Glu
 1 5 10 15

Leu Ile Leu Leu Asp Gln Thr Val Arg Val Val
 20 25

<210> 300

<211> 26

<212> PRT

<213> Homo sapiens

<400> 300

Ile Leu Gln Lys Cys His Phe Tyr Glu Val Leu Ser Glu Ile Lys Arg
 1 5 10 15

Leu Gly Asp His Leu Ala Glu Lys Thr Ser
 20 25

<210> 301
<211> 22
<212> PRT
<213> *Homo sapiens*

<400> 301
Asp Ala Gly Leu Glu Arg Thr Asn Pro Glu Tyr Glu Asn Glu Val Glu
1 5 10 15

Ala Ser Met Asp Met Asp
20

<210> 302
<211> 26
<212> PRT
<213> *Homo sapiens*

<400> 302
Asn Ile Ser Glu Gly Glu Ile Glu Arg Leu Ile Asn Leu Leu Glu Glu
1 5 10 15

Val Phe His Leu Met Glu Thr Ala Pro His
20 25

<210> 303
<211> 19
<212> PRT
<213> *Homo sapiens*

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<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 303
Arg Arg Thr Ser Gly Ser Pro Xaa Ala Ala Gly Ile Arg His Glu Gly
1 5 10 15 . -

Gly Phe Ile

<210> 304
<211> 149
<212> PRT
<213> *Homo sapiens*

<400> 304
Met Asn Arg His Asn Phe Pro Cys Ser Val His Gln Tyr Glu Ser Ser
1 5 10 15

Gly Thr Val Asn Asn Asp Asp Ser Asp Leu Leu Asp Ser Gln Val Gln
20 25 30

Tyr Ser Ala Glu Pro Gln Leu Tyr Gly Asn Ala Thr Ser Asp His Pro
 35 40 45

Asn Asn Gln Asp Gln Ser Ser Ser Leu Pro Glu Glu Cys Val Pro Ser
 50 55 60

Asp Glu Ser Thr Pro Pro Ser Ile Lys Lys Ile Ile His Val Leu Glu
 65 70 75 80

Lys Val Gln Tyr Leu Glu Gln Glu Val Glu Glu Phe Val Gly Lys Lys
 85 90 95

Thr Asp Lys Ala Tyr Trp Leu Leu Glu Glu Met Leu Thr Lys Glu Leu
 100 105 110

Leu Glu Leu Asp Ser Val Glu Thr Gly Gly Gln Asp Ser Val Arg Gln
 115 120 125

Ala Arg Lys Glu Ala Val Cys Lys Ile Gln Ala Ile Leu Glu Lys Lys
 130 135 140

Lys Lys Lys Asn Ser
 145

<210> 305

<211> 87

<212> PRT

<213> Homo sapiens

<400> 305

Gly Ala Arg Ala Thr Ala Pro Val Thr Val Arg Pro Thr Ala Ala Thr
 1 5 10 15

Thr Gly Leu Gly Val Glu Met Cys Arg Tyr Thr His Leu His Pro Tyr
 20 25 30

Ile Leu Phe Ala Leu Asn Leu Pro Ser Leu Pro Phe Pro Gly Gly Cys
 35 40 45

Ala Gly Ala Ala Arg Arg Pro Pro Gly Trp Glu Lys Ala Glu Glu
 50 55 60

Ala Met Ala Thr Ile Pro Arg Glu Ala Pro Gly Gln Ser Leu Val Glu
 65 70 75 80

Pro Glu Glu Ala Thr Arg Val
 85

<210> 306

<211> 25

<212> PRT

<213> Homo sapiens

<400> 306

Pro Val Thr Val Arg Pro Thr Ala Ala Thr Thr Gly Leu Gly Val Glu
 1 5 10 15

Met Cys Arg Tyr Thr His Leu His Pro
20 25

<210> 307

<211> 25

<212> PRT

<213> Homo sapiens

<400> 307

Pro Tyr Ile Leu Phe Ala Leu Asn Leu Pro Ser Leu Pro Phe Pro Gly
1 5 10 15

Gly Cys Ala Gly Ala Ala Arg Arg Arg
20 25

<210> 308

<211> 20

<212> PRT

<213> Homo sapiens

<400> 308

Lys Ala Glu Glu Ala Met Ala Thr Ile Pro Arg Glu Ala Pro Gly Gln
1 5 10 15

Ser Leu Val Glu
20

<210> 309

<211> 26

<212> PRT

<213> Homo sapiens

<400> 309

Met Asn Arg His Asn Phe Pro Cys Ser Val His Gln Tyr Glu Ser Ser
1 5 10 15

Gly Thr Val Asn Asn Asp Asp Ser Asp Leu
20 25

<210> 310

<211> 24

<212> PRT

<213> Homo sapiens

<400> 310

Asp Ser Gln Val Gln Tyr Ser Ala Glu Pro Gln Leu Tyr Gly Asn Ala
1 5 10 15

Thr Ser Asp His Pro Asn Asn Gln
20

<210> 311

<211> 25
 <212> PRT
 <213> Homo sapiens

<400> 311
 His Pro Asn Asn Gln Asp Gln Ser Ser Ser Leu Pro Glu Glu Cys Val
 1 5 10 15
 Pro Ser Asp Glu Ser Thr Pro Pro Ser
 20 25

<210> 312
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 312
 Glu Val Glu Glu Phe Val Gly Lys Lys Thr Asp Lys Ala Tyr Trp Leu
 1 5 10 15
 Leu Glu Glu Met Leu Thr Lys Glu
 20

<210> 313
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 313
 Leu Glu Leu Asp Ser Val Glu Thr Gly Gly Gln Asp Ser Val Arg Gln
 1 5 10 15
 Ala Arg Lys Glu Ala Val Cys Lys
 20

<210> 314
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 314
 Ile Arg His Glu Tyr Pro Val Leu Ile Gln Phe Ser Val Ser Tyr Arg
 1 5 10 15
 Lys Ser Phe Ile Phe Cys Leu Pro Glu
 20 25

<210> 315
 <211> 43
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 315

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Asp | Val | Glu | Leu | Val | Asp | Pro | Xaa | Gly | Cys | Arg | Asn | Ser | Ala | Arg |
| 1 | | | | 5 | | | | | | | 10 | | | 15 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Pro | Ala | Arg | Lys | Lys | Glu | Trp | His | Ser | Trp | Ala | Trp | Pro | Arg | Ile |
| | | | | 20 | | | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|
| Arg | Val | Ile | Arg | Ala | Arg | Glu | Ser | Leu | Gly | Ser | | | | | |
| | | | | 35 | | | 40 | | | | | | | | |

<210> 316

<211> 31

<212> PRT

<213> Homo sapiens

<400> 316

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Phe | Gly | Thr | Ser | Arg | Gly | Pro | Val | Pro | Leu | Ser | Ser | Thr | Ser | Pro |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Met | Pro | Ser | Arg | Leu | Val | Ile | Arg | Ala | His | Ser | Leu | Leu | Phe | Ala | |
| | | | | 20 | | | 25 | | | | | 30 | | | |

<210> 317

<211> 30

<212> PRT

<213> Homo sapiens

<400> 317

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Arg | Ala | Trp | Arg | Asn | His | Gly | His | Ser | Cys | Phe | Leu | Cys | Glu | Ile |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Val | Ile | Arg | Ser | Gln | Phe | His | Thr | Thr | Tyr | Glu | Pro | Glu | Ala | | |
| | | | | 20 | | | 25 | | | | | 30 | | | |

<210> 318

<211> 102

<212> PRT

<213> Homo sapiens

<400> 318

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Asp | Asn | Asn | Phe | Thr | Gln | Glu | Thr | Ala | Met | Thr | Met | Ile | Thr | Pro |
| 1 | | | | 5 | | | | | 10 | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Lys | Leu | Thr | Leu | Thr | Lys | Gly | Asn | Lys | Ser | Trp | Ser | Ser | Thr |
| | | | | 20 | | | 25 | | | | | 30 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Ala | Val | Ala | Ala | Leu | Glu | Leu | Val | Asp | Pro | Pro | Gly | Cys | Arg | Asn | |
| | | | | 35 | | | 40 | | | | 45 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ala | Arg | Ala | Val | Leu | Leu | Ile | Trp | Gly | His | Gly | Ser | Ser | Gly | Lys |
| | | | | 50 | | | 55 | | | 60 | | | | | |

Met Ala Leu Cys Gly Val Glu Val Ser Pro Arg Val Gly Gly Ser Val
 65 70 75 80

Pro Val His Arg Tyr Leu Leu Ala Ala His Ile His Ser Glu Ala Leu
 85 90 95

Leu Ser Gln Leu Arg Met
 100

<210> 319

<211> 24

<212> PRT

<213> Homo sapiens

<400> 319

Thr Ala Met Thr Met Ile Thr Pro Ser Ser Lys Leu Thr Leu Thr Lys
 1 5 10 15

Gly Asn Lys Ser Trp Ser Ser Thr
 20

<210> 320

<211> 26

<212> PRT

<213> Homo sapiens

<400> 320

Ser Ser Gly Lys Met Ala Leu Cys Gly Val Glu Val Ser Pro Arg Val
 1 5 10 15

Gly Gly Ser Val Pro Val His Arg Tyr Leu
 20 25

<210> 321

<211> 7

<212> PRT

<213> Homo sapiens

<400> 321

Val Asp Pro Val Lys Gly Gly
 1 5

<210> 322

<211> 16

<212> PRT

<213> Homo sapiens

<400> 322

Ile Arg His Glu Arg His Glu Leu Val Pro Asn Ser Ala Arg Asp Phe
 1 5 10 15

<210> 323
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 323
 Ala Thr Ser His Cys Gly
 1 5

<210> 324
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 324
 Ala His Gly Gln Ile Glu Gly Lys Ala Leu Thr His Asp His Thr Ala
 1 5 10 15

Glu Lys Trp Gln Arg Gln Asp Leu Asn Leu Glu Pro Leu Ala Pro His
 20 25 30

Thr Ser Asn Leu Asn His Ser Pro Tyr Asn Thr Thr Tyr Val Val Lys
 35 40 45

<210> 325
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 325
 Leu Asn Ser Ser Asp Cys Gln Leu Ala
 1 5

<210> 326
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 326
 Thr Pro His Asn Leu Ser Ala Arg Arg Leu Ser Gly Thr Met Tyr Gly
 1 5 10 15

Phe Phe Ala Leu Gln Leu Thr Val Leu Leu Val His Tyr Phe Phe Leu
 20 25 30

Ile

<210> 327
 <211> 40

<212> PRT
<213> *Homo sapiens*

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<400> 327
Asn Ser Ala Arg Ala Lys Met Arg Leu Ser Thr Asn Leu Cys Ile Ile
      1           5           10          15

Leu Ile Asn Ile Leu Ile Gln Asn Val Leu Asn Phe Asn Arg Lys Ile
      20          25          30

Ile Phe Lys Phe Leu Pro Cys Ala
      35          40

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<210> 328
<211> 21
<212> PRT
<213> *Homo sapiens*

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 328
Asn Xaa Trp Ile Pro Arg Ala Ala Gly Ile Arg His Xaa Ala Ala Leu
1 5 10 15

Gly Gln Ala Gly Thr
20

<210> 329
<211> 85
<212> PRT
<213> *Homo sapiens*

<400> 329
Leu Leu Phe His Met Lys Leu Arg Lys Glu Val Glu Arg Thr Gly Leu
1 5 10 15

Val Leu Trp Ala Leu Leu Ala Gly Ala Pro Pro Pro Thr Ala Gly Leu
20 25 30

Gln Leu Gln Gly Ser Glu Ala Ile Ser Glu Lys Val Gly Ser Gly Ala
35 40 45

Glu Gly Ser Arg Gly Gln Val Pro Gly Gln Leu Leu Gln Gln Ala Gln
50 55 60

Gln Ala Phe His Leu Cys Pro Gln Val Ile His Gly Leu Leu Tyr His
65 70 75 80

Leu Leu His Asp Ile
85

<210> 330
<211> 25
<212> PRT
<213> Homo sapiens

<400> 330
Arg Lys Glu Val Glu Arg Thr Gly Leu Val Leu Trp Ala Leu Leu Ala
1 5 10 15

Gly Ala Pro Pro Pro Thr Ala Gly Leu
20 25

<210> 331
<211> 23
<212> PRT
<213> Homo sapiens

<400> 331
Gly Ser Arg Gly Gln Val Pro Gly Gln Leu Leu Gln Gln Ala Gln Gln
1 5 10 15

Ala Phe His Leu Cys Pro Gln
20

<210> 332
<211> 50
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 332
Gly Ser Arg Arg His Val Val Gly Lys Pro Gly Thr Pro Cys Arg Tyr
1 5 10 15

Arg Ala Gly Ile Pro Xaa Val Asp Pro Arg Val Arg Ser Ile Thr Val
20 25 30

Ile Val Lys Met Trp Phe Leu Arg Val Val Ala Thr Tyr Gly Gly Val
35 40 45

Glu Arg
50

<210> 333
<211> 18
<212> PRT
<213> Homo sapiens

<400> 333
Ile Phe Ser Cys Asp Ser Ile Ala Ile Ile Gln Ile Lys His Leu Ala
1 5 10 15

Phe Pro

<210> 334
<211> 34
<212> PRT
<213> *Homo sapiens*

<400> 334
Gly Leu Trp Leu Ser Leu Gly Gly Phe His Glu Arg Gly Gln Asp Trp
1 5 10 15

Glu Gln Thr Gln Lys Ile Tyr Asn Cys His Val Leu Leu Asn Arg Lys
20 25 " 30

Gly Gln

<210> 335
<211> 68
<212> PRT
<213> *Homo sapiens*

<400> 335
Ala Trp Pro Arg Leu Gly Ala Asp Ser Glu Asn Leu Gln Leu Ser Arg
1 5 10 15

Ala Ala Glu Gln Lys Gly Ala Val Val Ala Thr Tyr Arg Lys Thr His
20 25 30

Leu Cys Asp Val Glu Ile Pro Gly Gln Gly Leu Cys Val Lys Ala Thr
35 40 45

Leu Pro Cys Leu Gly Pro Val Leu Ser His Leu Ser Ala His Gln Gln-
50 55 60

Ala Arg Leu Val

<210> 336
<211> 27
<212> PRT
<213> *Homo sapiens*

<400> 336
Arg Ala Ala Glu Gln Lys Gly Ala Val Val Ala Thr Tyr Arg Lys Thr
1 5 10 15

His Leu Cys Asp Val Glu Ile Pro Gly Gln Gly
20 25

<210> 337

<211> 8

<212> PRT

<213> Homo sapiens

<400> 337

Arg Arg Asp Ser Arg Ala Gly Ala
1 5

<210> 338

<211> 8

<212> PRT

<213> Homo sapiens

<400> 338

Leu Ser Ala Gly Asn His Asp Thr
1 5

<210> 339

<211> 41

<212> PRT

<213> Homo sapiens

<400> 339

Lys Gln Val Lys Cys Ala Lys Val Ser Tyr Leu Leu Phe Leu Phe Gln
1 5 10 15Tyr Cys Ala Ile Asp Ser Cys Ile Lys Phe Trp Asn Ala Gly Ser Ser
20 25 30Trp Leu Ser Ser Val Thr Leu Trp Ser
35 40

<210> 340

<211> 13

<212> PRT

<213> Homo sapiens

<400> 340

Ile Tyr Val Met Asp Thr Ser Arg Ser Thr Asn Pro Val
1 5 10

<210> 341

<211> 14

<212> PRT

<213> Homo sapiens

<400> 341

Asn Met Leu Tyr Ala Cys Ser Ile Leu Tyr Lys Thr Lys Leu
1 5 10

<210> 342
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 342
 Met Asn Lys Thr Asp Ile Ile Asp His Ser Phe Ala Val Glu Trp Met
 1 5 10 15
 Gln Asp Phe

<210> 343
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 343
 Ala Phe Gln Asp Ala Leu Asn Gln Glu Thr Thr Tyr Val
 1 5 10

<210> 344
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 344
 Asn Leu Thr Arg Ser Met Ser Leu Val Leu Asp Glu Phe Tyr Ser Ser
 1 5 10 15

Leu Arg Val Val Gly Val Ser Ala Val Leu Gly Thr Gly Leu Asp Glu
 20 25 30

Leu Phe Val Gln Val Thr Ser Ala Ala
 35 40

<210> 345
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 345
 Leu Lys Lys Ser Leu Ala Asn Ala Glu Ser
 1 5 10

<210> 346
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 346
 Lys Asp Met Gly Ser Val Ala Leu Asp Ala Gly Thr Ala Lys Asp Ser
 1 5 10 15

Leu Ser Pro Val Leu His Pro Ser Asp Leu Ile Leu Thr
 20 25

<210> 347

<211> 28

<212> PRT

<213> Homo sapiens

<400> 347

Ala Gly Ser Gly Lys Thr Thr Phe Val Gln Arg Leu Thr Gly His Leu
 1 5 10 15

His Ala Gln Gly Thr Pro Pro Tyr Val Ile Asn Leu
 20 25

<210> 348

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 348

Ser Thr Trp Ile Gln Gln Tyr Met Lys Phe Pro Phe Leu Pro Ile Leu
 1 5 10 15

Val Met Lys Phe Ile Glu Lys Ala Gln Asn Met Ser Lys Tyr Val Leu
 20 25 30

Ile Asp Thr Pro Gly Gln Ile Glu Val Phe Thr Trp Ser Ala Ser Gly
 35 40 45

Thr Ile Ile Thr Glu Ala Leu Ala Ser Ser Phe Pro Thr Val Xaa Ile
 50 55 60

Tyr Val Met Asp Thr Ser Arg Ser Thr Asn Pro Val Thr Phe Met Cys
 65 70 75 80

Asn Met Leu Tyr Ala Cys Ser Ile Leu Tyr Lys Thr Lys Leu Ala Phe
 85 90 95

Ile Xaa Gly Met Asn Lys Thr Asp Ile Ile Asp His Ser Phe Ala Val
 100 105 110

Glu Trp Met Gln Asp Phe Xaa Ala Phe Gln Asp Ala Leu Asn Gln Glu
 115 120 125

Thr Thr Tyr Val Ile Thr
 130

<210> 349
 <211> 197
 <212> PRT
 <213> Homo sapiens

<400> 349
 Gly Phe Pro Arg Cys Leu Glu Ser Arg Asp Tyr Ile Arg His Asn Leu
 1 5 10 15

Thr Arg Ser Met Ser Leu Val Leu Asp Glu Phe Tyr Ser Ser Leu Arg
 20 25 30

Val Val Gly Val Ser Ala Val Leu Gly Thr Gly Leu Asp Glu Leu Phe
 35 40 45

Val Gln Val Thr Ser Ala Ala Glu Glu Tyr Glu Arg Glu Tyr Arg Pro
 50 55 60

Glu Tyr Glu Arg Leu Lys Lys Ser Leu Ala Asn Ala Glu Ser Gln Gln
 65 70 75 80

Gln Arg Glu Gln Leu Glu Arg Leu Arg Lys Asp Met Gly Ser Val Ala
 85 90 95

Leu Asp Ala Gly Thr Ala Lys Asp Ser Leu Ser Pro Val Leu His Pro
 100 105 110

Ser Asp Leu Ile Leu Thr Arg Gly Thr Leu Asp Glu Glu Asp Glu Glu
 115 120 125

Ala Asp Ser Asp Thr Asp Asp Ile Asp His Arg Val Thr Glu Glu Ser
 130 135 140

His Glu Glu Pro Ala Phe Gln Asn Phe Met Gln Glu Ser Met Ala Gln
 145 150 155 160

Tyr Trp Lys Arg Asn Asn Lys His Arg Val Thr Glu Glu Ser His Glu
 165 170 175

Glu Pro Ala Phe Gln Asn Phe Met Gln Glu Ser Met Ala Gln Tyr Trp
 180 185 190

Lys Arg Asn Asn Lys
 195

<210> 350
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 350

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Pro | Ser | Ser | Val | Gly | Ser | Ala | Ser |
| 1 | | | 5 | | | | 10 | | |

<210> 351

<211> 39

<212> PRT

<213> Homo sapiens

<400> 351

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Glu | Ala | Thr | Lys | Asn | Pro | Thr | His | His | Arg | Ser | Thr | Pro | His | Ala |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Ser | Gln | Leu | Asn | Val | Pro | Pro | Gln | Pro | Cys | Phe | Pro | Leu | His |
| | | | | 20 | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|
| His | Gln | Ile | Lys | Thr | Ser | Pro | | | | | | | | | |
| | | | | 35 | | | | | | | | | | | |

<210> 352

<211> 38

<212> PRT

<213> Homo sapiens

<400> 352

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Gln | Thr | Ile | Phe | Lys | Gln | Ser | Arg | His | Arg | Cys | Asp | Ser | Arg | Gln |
| 1 | | | | 5 | | | | 10 | | | | | 15 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Ser | Thr | Trp | Leu | Cys | Ser | His | Glu | Lys | Asp | Ala | Thr | Lys | Met | Met |
| | | | | 20 | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|
| His | Leu | Asn | Asp | Asn | Ser | | | | | | | | | | |
| | | | | 35 | | | | | | | | | | | |

<210> 353

<211> 48

<212> PRT

<213> Homo sapiens

<400> 353

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Thr | Gly | Ser | Pro | Ile | Leu | Gln | Leu | Ala | Leu | Leu | Gln | Leu | Pro | Ala |
| 1 | | | | 5 | | | | 10 | | | | 15 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Pro | Leu | Arg | Gly | Arg | Leu | Arg | Gly | Lys | Arg | His | Cys | Thr | Gly | Leu |
| | | | | 20 | | | 25 | | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Leu | Ala | Ile | Ser | Gly | Asn | Gly | Gly | Glu | Trp | Gly | Gly | Arg | Gly | Glu |
| | | | | 35 | | | 40 | | | | | 45 | | | |

<210> 354

<211> 19
 <212> PRT
 <213> Homo sapiens

<400> 354
 Glu Phe Gly Thr Arg Ser Leu Asp Pro Ser Gly Arg His Arg Val Gly
 1 5 10 15

Ala Ala Gly

<210> 355
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 355
 Ala Gln Gly Arg Cys Ser Arg Asp Gly Ala Ser Ala His Gly Gly Leu
 1 5 10 15

Ser Val Pro Arg Trp Thr Cys Pro Ser Ser Gly Ser His Asn Pro Leu
 20 25 30
 Pro Leu His Tyr Phe Thr Gln Val Gly Thr Phe Pro
 35 40

<210> 356
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 356
 Cys Arg Val Ser Ala Leu Arg Glu Leu Lys Asp Ser Gln Arg His Gln
 1 5 10 15
 Gly Ser Leu Ala Gln Arg Ser Asn Ser Gln Ala Pro Arg Arg Thr Ala
 20 25 30

Met Glu Arg Thr Glu Thr His Leu Gln Trp Gly Leu
 35 40

<210> 357
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 357
 Gly Thr Leu Pro Val Pro Gly Val Gln Ser Leu Pro Thr Pro Ser Leu
 1 5 10 15
 Cys Leu Pro Pro Ser Lys Gly Gly Val Thr Thr Ser Val Ala Lys His
 20 25 30
 Leu Leu Pro Gly Ser Leu His Pro Gly His Leu Ser Leu
 35 40 45

<210> 358
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 358
 Trp Ser Val Cys Leu Ser Val Pro Pro Ser Leu Asn Leu Leu Pro Pro
 1 5 10 15

Cys Pro Leu Leu Leu Ala Pro Gly Ser Pro Xaa Pro Leu Leu Ala Ala
 20 25 30

Pro Ser His Leu Thr Gln Gly Ser Leu Arg Thr Leu Lys Trp Trp Ile
 35 40 45

His Pro Glu
 50

<210> 359
 <211> 50
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 359
 Ser Pro Gly Leu Xaa Gly Ile Arg His Glu Gln Pro Ser Lys Leu Met
 1 5 10 15

Arg Leu Leu Ser Ser Asn Glu Asp Asp Ala Asn Ile Leu Ser Ser Pro
 20 25 30

Thr Asp Arg Ser Met Ser Ser Ser Leu Ser Ala Ser Gln Leu His Thr
 35 40 45

Val Asn
 50

<210> 360
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 360
 Gln Pro Ser Lys Leu Met Arg Leu Leu Ser Ser Asn Glu Asp Asp Ala
 1 5 10 15

Asn Ile Leu Ser Ser Pro Thr Asp Arg
20 25

<210> 361
<211> 26
<212> PRT
<213> Homo sapiens

<400> 361
Gln Leu His Thr Val Asn Met Arg Asp Pro Leu Asn Arg Val Leu Ala
1 5 10 15

Asn Leu Phe Leu Leu Ile Ser Ser Ile Leu
20 25

<210> 362
<211> 17
<212> PRT
<213> Homo sapiens

<400> 362
Gly Ser Arg Thr Ala Gly Pro His Thr Gln Phe Val Gln Trp Phe Met
1 5 10 15

Glu

<210> 363
<211> 16
<212> PRT
<213> Homo sapiens

<400> 363
Lys Val Ser Ala Met Ser Ser Pro Lys Val Val Leu Ala Ile Thr Asp
1 5 10 15

<210> 364
<211> 9
<212> PRT
<213> Homo sapiens

<400> 364
Asp Asn Tyr Cys Leu Gln Ile Asn Pro
1 5

<210> 365
<211> 13
<212> PRT
<213> Homo sapiens

<400> 365

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Arg | Ile | Leu | Asn | Lys | Pro | Val | Gly | Leu | Lys | Asp | Leu |
| 1 | | | 5 | | | | | | | | | |

10

<210> 366

<211> 20

<212> PRT

<213> Homo sapiens

<400> 366

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Pro | Gln | Ile | Ala | Tyr | Val | Arg | Asp | Phe | Lys | Ala | Lys | Val | Gln | Tyr |
| 1 | | | 5 | | | | | | | | | | | | |

10

15

Phe Arg Phe Trp

20

<210> 367

<211> 21

<212> PRT

<213> Homo sapiens

<400> 367

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Phe | Val | Asn | His | Asn | Thr | Arg | Ile | Thr | Gln | Trp | Glu | Asp | Pro | Arg |
| 1 | | | 5 | | | | | | | | | | | | |

10

15

Ser Gln Gly Gln Leu

20

<210> 368

<211> 23

<212> PRT

<213> Homo sapiens

<400> 368

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Gly | Arg | Phe | Ile | Ala | Met | Ala | Leu | Phe | His | Gly | Lys | Phe | Ile | Asp |
| 1 | | | 5 | | | | | | | | | | | | |

10

15

Thr Gly Phe Ser Leu Pro Phe

20

<210> 369

<211> 18

<212> PRT

<213> Homo sapiens

<400> 369

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Gln | Ile | Met | Trp | Phe | Trp | Gln | Phe | Val | Lys | Glu | Ile | Asp | Asn | Glu |
| 1 | | | 5 | | | | | | | | | | | | |

10

15

Lys Arg

<210> 370
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 370
 Phe Asn Arg Leu Asp Leu Pro Pro Tyr Lys Ser Tyr Glu Gln Leu Lys
 1 5 10 15

Glu

<210> 371
 <211> 474
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (131)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (136)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (146)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (198)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (235)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (428)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 371
 Thr His Ala Ser Ala Thr Arg Pro Gly Pro Leu Pro Pro Gly Trp Glu
 1 5 10 15

Lys Arg Thr Asp Ser Asn Gly Arg Val Tyr Phe Val Asn His Asn Thr

20

25

30

Arg Ile Thr Gln Trp Glu Asp Pro Arg Ser Gln Gly Gln Leu Asn Glu
 35 40 45

Lys Pro Leu Pro Glu Gly Trp Glu Met Arg Phe Thr Val Asp Gly Ile
 50 55 60

Pro Tyr Phe Val Asp His Asn Arg Arg Thr Thr Tyr Ile Asp Pro
 65 70 75 80

Arg Thr Gly Lys Ser Ala Leu Asp Asn Gly Pro Gln Ile Ala Tyr Val
 85 90 95

Arg Asp Phe Lys Ala Lys Val Gln Tyr Phe Arg Phe Trp Cys Gln Gln
 100 105 110

Leu Ala Met Pro Gln His Ile Lys Ile Thr Val Thr Arg Lys Thr Leu
 115 120 125

Phe Glu Xaa Ser Phe Gln Gln Xaa Xaa Ser Phe Ser Pro Gln Asp Leu
 130 135 140

Arg Xaa Arg Leu Trp Val Ile Phe Pro Gly Glu Glu Gly Leu Asp Tyr
 145 150 155 160

Gly Gly Val Ala Arg Glu Trp Phe Phe Leu Leu Ser His Glu Val Leu
 165 170 175

Asn Pro Met Tyr Cys Leu Phe Glu Tyr Ala Gly Lys Asp Asn Tyr Cys
 180 185 190

Leu Gln Ile Asn Pro Xaa Ser Tyr Ile Asn Pro Asp His Leu Lys Tyr
 195 200 205

Phe Arg Phe Ile Gly Arg Phe Ile Ala Met Ala Leu Phe His Gly Lys
 210 215 220

Phe Ile Asp Thr Gly Phe Ser Leu Pro Phe Xaa Lys Arg Ile Leu Asn
 225 230 235 240

Lys Pro Val Gly Leu Lys Asp Leu Glu Ser Ile Asp Pro Glu Phe Tyr
 245 250 255

Asn Ser Leu Ile Trp Val Lys Glu Asn Asn Ile Glu Glu Cys Asp Leu
 260 265 270

Glu Met Tyr Phe Ser Val Asp Lys Glu Ile Leu Gly Glu Ile Lys Ser
 275 280 285

His Asp Leu Lys Pro Asn Gly Gly Asn Ile Leu Val Thr Glu Glu Asn
 290 295 300

Lys Glu Glu Tyr Ile Arg Met Val Ala Glu Trp Arg Leu Ser Arg Gly
 305 310 315 320

Val Glu Glu Gln Thr Gln Ala Phe Phe Glu Gly Phe Asn Glu Ile Leu
 325 330 335

Pro Gln Gln Tyr Leu Gln Tyr Phe Asp Ala Lys Glu Leu Glu Val Leu
 340 345 350

Leu Cys Gly Met Gln Glu Ile Asp Leu Asn Asp Trp Gln Arg His Ala
 355 360 365

Ile Tyr Arg His Tyr Ala Arg Thr Ser Lys Gln Ile Met Trp Phe Trp
 370 375 380

Gln Phe Val Lys Glu Ile Asp Asn Glu Lys Arg Met Arg Leu Leu Gln
 385 390 395 400

Phe Val Thr Gly Thr Cys Arg Leu Pro Val Gly Gly Phe Ala Asp Leu
 405 410 415

Met Gly Ser Asn Gly Pro Gln Lys Phe Cys Ile Xaa Lys Val Gly Lys
 420 425 430

Glu Asn Trp Leu Pro Arg Ser His Thr Cys Phe Asn Arg Leu Asp Leu
 435 440 445

Pro Pro Tyr Lys Ser Tyr Glu Gln Leu Lys Glu Lys Leu Leu Phe Ala
 450 455 460

Ile Glu Glu Thr Glu Gly Phe Gly Gln Glu
 465 470